

# JetCat serial interface description V12-ECU and PRO-engines << ASCII protocol >>



Ingenieurbüro CAT, M. Zipperer GmbH Wettelbrunner Straße 6 D-79282 Ballrechten-Dottingen GERMANY

> Tel.: + 49 (0)76 34- 5056 - 800 Fax: + 49 (0)76 34 - 5056 - 801 Internet: www.jetcat.de

## Content

Change Log	3
Serial interface of the JetCat ECU, PRO engines	3
Connection between PC and the JetCat ECU:	4
Pinout of the 9-pin SUB-D female connector of the JetCat RS232 adapter:	4
Format of a RS232-Command:	4
Table 1: Error codes	6
Control Modes	7
Table 1, Control Modes:	7
ECU RS232-commands	8
Table 2: Turbine states	15
Table 3: Off-Conditions	16
Table 4: Health check results	18
EXAMPLES	19
Example 1 (reading engine real values):	19
Example 2 (read out log data):	20
Example 3 (engine control):	21
a) Start engine	21
b) Set engine Rpm	22
c) Set thrust in %	23
d) Stop engine	24



## **Change Log**

30.01.2022: Throttle curve parameter can be set. Command added

17.11.2021: Oilpump test option added in "TST" command.

09.09.2021: Tanksize and "Fuel used" numbers can be set (via SER command)

27.07.2020 new engine states added (Table 2) 05.06.2020 V12.45A or higher, RPR command added

05.03.19 V12.01T or higher

SVC command (smoker valve control) changed, added functionality

### Serial interface of the JetCat ECU, PRO engines

The serial interface (RS232) of the JETCAT ECU facilitates remote access of all controller functions as well as readout and change of all system parameters

A special daisy chaining feature facilitates chaining multiple ECU's via their serial interfaces only through one PC-interface (RS232)

To set-up a daisy-chain, the transmit line (TxD) of the PC is connected to the receive line (RxD) of the first ECU. The transmit line of this ECU is then connected to the receive line of the next ECU in the chain. The transmit line of the last ECU in the chain is returned to the receive line of the PC, which closes the link and forms the ring connection.

To address a specific controller in a daisy-chain, each controller carries a so-called Slave Address, which can be any number from 1 to 255 (default setting: 1).

### Parameters of the serial interface:

baud rate: 4800-115000 baud (9600 default)

data bits: 8 parity: none stop bits: 1

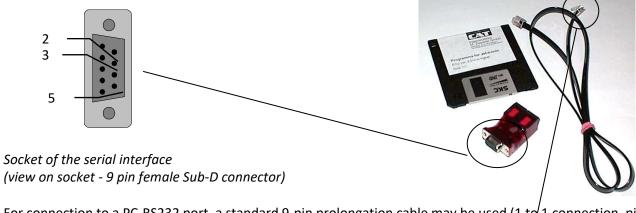
default slave address: 1



## Connection between PC and the JetCat ECU:

### Pinout of the 9-pin SUB-D female connector of the JetCat RS232 adapter:

Pin	Description
2	transmit data TxD, (RS232 signal
	level)
3	receive data RxD,
	(RS232 signal level)
5	Signal ground, GND



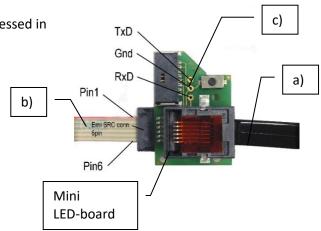
For connection to a PC-RS232 port, a standard 9-pin prolongation cable may be used (1 to 1 connection, pins not crossed!).

"Phone" type connector (RJ45) and Erni 6pin SRC pinout:

Pin	Description
1	transmit data TxD, 3,3V level
2	+5V output, max. 60mA
3	Data Bus-C (do not connect !!!)
4	Data Bus-D (do not connect !!!)
5	Signal ground, GND
6	receive data RxD, 3,3V level

The serial interface of the ECU (TTL-level) can be accessed in 3 ways:

- a) RJ45 connector (pin 1,5,6)
- b) 6-pin ERNI SRC connector (pin 1,5,6)
- c) 3-pin "solder joint" outlet





Ingenieurbüro CAT, M. Zipperer GmbH Wettelbrunner Straße 6

Pin 6

79282 Ballrechten-Dottingen GERMANY +49-7634-5056-800 sales@jetcat.de www.jetcat.de

Pin 1

### Format of a RS232-Command:

ADR , CMDCODE , PARAMETERLIST <CR>

Description:

ADR: Slave Address of the desired ECU (0-255 allowed, 1 is default)

CMDCODE: Command-code

**PARAMETERLIST:** 1 to 8 parameters separated by commas (,)

**<CR>:** The command must be terminated by Carriage/Return (ASCII 13)

The ADR/ CMDCODE and PARAMETERLIST fields are also separated by commas ",".

Example: ADR=1; CMDCODE=TCO; PARMETERLIST=1

→ This then forms the following string: 1, TCO, 1<CR>

After receiving a RS232-command the ECU will:

- 1. Send the received command to the next controller (or back to the host daisy chaining)
- 2. Answer with a handshake string, which is defined as follows:

ADR, "HS", RETCODE, PARAMETERLIST <CR>

### **Explanation:**

**ADR:** Slave Address of the Controller sending the handshake

**RETCODE:** Return code (see table 1)

**PARAMETERLIST:** 1 to 8 parameters, each parameter is separated by a comma ","

CR The handshake as any command, is terminated by ASCII-code 13 (CR)



### Table 1: Error codes

Return Code	Explanation	Parameter list
OK	command executed, no error	Up to 8 parameters
UC	unknown command	none
PA	wrong parameter number	none
	(too few or too many parameters had been specified in the	
	parameter list)	
NA	command is not allowed in actual operation mode	1. actual turbine state
PR	at least one parameter is out of range	none
PL	at least one parameter is too long	none
DF	unknown data format, possibly string / data corrupt	none



### **Control Modes**

The ECU allows engine control (start/stop/rpm commanding) via several control sources:

PWM: Servo PWM signal (Throttle and AUX channels).

• GSU: Ground support unit, if connected.

COM: Serial interface (described in this document)

• CAN: CAN-BUS interface

Therefore, different control modes are defined as follows:

**PWM control mode**: Default when engine is not running or is controlled via PWM signals.

**EXT control mode**: Default when engine has been commanded to start either via a GSU keyboard command or a command sent via the serial interface (COM), or via a command sent via the CAN-bus interface. **COM control mode**: In this mode, commands will only be accepted via the COM serial interface and GSU. **CAN control mode**: In this mode, commands will only be accepted via the CAN-Bus interface and GSU.

**GSU control mode**: In this mode engine control is only possible through the ground support unit.

Table 1. Control Modes:

	Matrix for allowed co	Matrix for allowed control sources, depending on control mode and engine state				
		(=not running/running	g or starting up)			
Control mode	<b>Engine Start</b>	<b>Engine Stop</b>	Engine setpoint	Change of control		
	(engine not yet	(engine was started	control	mode after engine		
	started or running)	or is running)	(engine running)	has been started		
PWM control (2)	PWM, GSU, COM, CAN	PWM, GSU	PWM	GSU, COM, CAN		
EXT control (3)	Not defined	GSU, COM, CAN	GSU, COM, CAN	GSU, COM, CAN		
COM control (4)	Not defined COM, GSU COM, GSU COM, GSU					
CAN control (5)	ntrol (5) Not defined CAN, GSU CAN, GSU					
GSU control (6)	Not defined	GSU	GSU	GSU		

Whenever the engine is off/not running, the control mode is automatically set to "PWM control mode". This basically allows all control sources to take engine control by starting the engine.

Depending on the source from which the engine start command came in first, the system would either stay in PWM control mode (when engine start has been commanded via valid PWM signal/sequence) or will switch into EXT control mode if the engine has been started via commands given by either GSU, COM or CAN interface.

Once in EXT control mode, there are commands available to switch to COM control mode, which would actively disable any commanding coming in via the CAN-Bus interface.

For basic serial communication applications, this command mode switching however is not required, as in EXT control mode, commands coming in via the serial interface would also be processed.

In all control modes manual GSU override control is possible.

GSU control mode can be activated/switched by a special key sequence on the GSU keyboard

CAN control mode can only be activated through the CAN-Bus interface with dedicated commands.



## ECU RS232-commands

CMD. CODE	Explanation	Parameter list	Range
RAC	Read actual values	1. Dummy parameter to initiate transfer	1
		→ ECU sends in handshake:	
		1. Turbine RPM	0200000
		2. EGT °C	-201400
		3. Pump voltage	07
		4. Turbine State	0 (see table)
		5. Throttle position in % (via the throttle PWM input!)	0100
		6. Engine current in Amps	040
		(V10.2Z or higher only)	
RGV	Read generator values (currents/voltages)	V12.01K or higher; only engines with generator	
		1. Dummy parameter to initiate transfer	1
		→ ECU sends in handshake:	
		Engine current (current consumed by engine: ECU/pumps/valves etc.)     Generator output current	0+62.50A
		3. Charge/supply current into battery/external equipment. This is the	0+40.00A
		current flowing in the engine supply leads. Negative numbers indicate	-62.50+40.00A
		that current is taken out of the supply battery, positive numbers	02.00
		indicate that currents are flowing from engine into battery/external	
		equipment.	
		4. Generator DC output voltage (before DC/DC regulator)	
			0 60.00V
DHC	Do health check	V12.33 or higher only	0 00.00V
DHC	Do Health Check	V12.33 of flighter offly	
		1. Control parameter 1 or 0.	0/1
		1: starts health check	0,1
		0: terminates a possibly running health check.	
		or terminates a possibly running fleater effective	
		→ ECU will reply in handshake with a status code ( 0 or 1)	
		0: Health check cannot be performed at this time (e.g. engine running)	
		1: Command accepted, Health check in progress now.	
		Use RHC command to read health check results/progress. Health	
		check is finished once all return values of the RHC command are	
		unequal to zero!	
		unequal to zero.	
		Health checking will take about 15 seconds to complete. If engine start is issued	
		while health checking is in progress, health checking will be aborted, and engine	
		start executed instantly.	
RHC	Read health check results	V12.33 or higher only	1
		1. Dummy parameter to initiate transfer	
		→ ECU sends in handshake:	
		1. Starter health flag	0 16
		2. Main valve health flag	0 16
		3. Starter valve health flag	0 16
		4. Rpm Sensor health flag	0 16
		5. Pump health flag	0 16
		6. Glow plug health flag	0 16
		7. EGT sensor health flag	0 16
		See table 5 (page: 17) for explanation of return codes	



Ilways read as 1)  Il 042 (see Table) 0 500 km/h  Inpeed regulator input 0 1023 01023  Itiate transfer 1  Iradiue in mbar interest (absolute) 2 in m (zero reference is the altitude were ECU was in m (zero reference is the altitude were ECU was in m (zero reference is the spowered up) in ported by barometric sensor in include the merature in front of compressor). This ind on engines which do have T0 temperature sensors in case there is no T0 sensor present a value of -100 in incrementary in incrementary in front of compressor in the spower is available only on firmware 12.49 or higher.	CMD.   Explanation   Parameter list   Range	CMD.   Explanation   Parameter list   Range		CODE	CODE
Ilways read as 1)  Il 042 (see Table) 0 500 km/h  Inpeed regulator input 0 1023 01023  Itiate transfer 1  Iralue in mbar Interest (absolute) 1 1000 1 11000 1	'	CODE	'	RSS Read system status 1. Dummy parameter to initiate transfer 1	
Ilways read as 1)  Il 042 (see Table) 0 500 km/h  Inpeed regulator input 0 1023 01023  Itiate transfer 1  Iralue in mbar Interest (absolute) 1 1000 1 11000 1	LODE			, , , , , , , , , , , , , , , , , , ,	
Ilways read as 1)  I 042 (see Table) 0 500 km/h  Inpeed regulator input 0 1023 01023  Itiate transfer:  Iralue in mbar reters (absolute)  In in m (zero reference is the altitude were ECU was responsed up)  Imported by barometric sensor received in the temperature in front of compressor). This don engines which do have T0 temperature sensors. In case there is no T0 sensor present a value of -100 rameter is available only on firmware 12.49 or higher.  Itiate transfer:  In text string				7 Eco serius III Italiusiiake.	7,00
042 (see Table) 0 500 km/h  peed regulator input peed input  0 1023 01023  titate transfer :  ralue in mbar seters (absolute) in m (zero reference is the altitude were ECU was  det erached since ECU power up (zero reference is the s powered up) ported by barometric sensor sere (inlet temperature in front of compressor). This d on engines which do have T0 temperature sensors . In case there is no T0 sensor present a value of -100 rameter is available only on firmware 12.49 or higher.  titate transfer :  n text string	RSS Read system status 1. Dummy parameter to initiate transfer 1	, , , , , , , , , , , , , , , , , , ,	RSS Read system status 1. Dummy parameter to initiate transfer 1		
042 (see Table) 0 500 km/h  1 1023 01023 1 1023 1 1023 1 1023 1 1023 1 1023 1 1023 1 1023 1 1023 1 1023 1 1023 1 1023 1 1023 1 1023 1 100 1 1000 1 1000 1 1100	RSS Read system status 1. Dummy parameter to initiate transfer 1	, , , , , , , , , , , , , , , , , , ,	RSS Read system status 1. Dummy parameter to initiate transfer 1	1. Dummy parameter (always read as 1)	7 ECO SERIOS III HARIOSHARE.
peed regulator input peed input  titate transfer :  ralue in mbar eteters (absolute) in m (zero reference is the altitude were ECU was  ride reached since ECU power up (zero reference is the spowered up) prorted by barometric sensor are (inlet temperature in front of compressor). This d on engines which do have T0 temperature sensors . In case there is no T0 sensor present a value of -100 arameter is available only on firmware 12.49 or higher.  titate transfer :  n text string	RSS Read system status  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1  1	→ ECU sends in handshake:	RSS Read system status  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1  1		
input peed input  0 1023 01023  titate transfer :  ralue in mbar peeters (absolute) in m (zero reference is the altitude were ECU was  ride reached since ECU power up (zero reference is the spowered up) prorted by barometric sensor pre (inlet temperature in front of compressor). This d on engines which do have T0 temperature sensors . In case there is no T0 sensor present a value of -100 rameter is available only on firmware 12.49 or higher.	RSS Read system status  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter (always read as 1)  1	→ ECU sends in handshake:  1. Dummy parameter (always read as 1)  1	RSS Read system status  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter (always read as 1)  1	El 011 00116	1. Dummy parameter (always read as 1) 1
titate transfer  trailue in mbar seters (absolute) sin m (zero reference is the altitude were ECU was  defereached since ECU power up (zero reference is the spowered up) sported by barometric sensor sere (inlet temperature in front of compressor). This don engines which do have T0 temperature sensors In case there is no T0 sensor present a value of -100 rameter is available only on firmware 12.49 or higher.	RSS Read system status  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter (always read as 1)  2. Off-Condition  1 042 (see Table)	<ul> <li>→ ECU sends in handshake:</li> <li>1. Dummy parameter (always read as 1)</li> <li>2. Off-Condition</li> <li>1</li> <li>042 (see Table)</li> </ul>	RSS Read system status  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition  1 042 (see Table)		1. Dummy parameter (always read as 1) 2. Off-Condition 1 042 (see Table)
titate transfer :  ralue in mbar neters (absolute) in m (zero reference is the altitude were ECU was  ride reached since ECU power up (zero reference is the spowered up) prorted by barometric sensor are (inlet temperature in front of compressor). This don engines which do have T0 temperature sensors . In case there is no T0 sensor present a value of -100 rameter is available only on firmware 12.49 or higher.  titate transfer :  n text string	RSS Read system status  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition  1 042 (see Table)	→ ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed  3. Actual Flight Speed	RSS Read system status  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed  1  1  042 (see Table) 0 500 km/h	3. Actual Flight Speed 0 500 km/h	1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 1 1 042 (see Table) 0 500 km/h
adue in mbar  reters (absolute)  rin m (zero reference is the altitude were ECU was  ride reached since ECU power up (zero reference is the spowered up)  reported by barometric sensor  re (inlet temperature in front of compressor). This d on engines which do have T0 temperature sensors.  In case there is no T0 sensor present a value of -100 rameter is available only on firmware 12.49 or higher.  retext string	RSS Read system status  1. Dummy parameter to initiate transfer  ECU sends in handshake:  1. Dummy parameter (always read as 1)  2. Off-Condition  3. Actual Flight Speed  4. Proportional part of Speed regulator  5. AD-value of Airspeed input  1  1  042 (see Table)  0 500 km/h  0 1023	→ ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input  1 042 (see Table) 0 500 km/h 0 1023	RSS Read system status  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input  1. Dummy parameter (always read as 1) 042 (see Table) 0500 km/h 01023	3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 0 500 km/h 0 1023	1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 1 042 (see Table) 0 500 km/h 0 500 km/h 0 1023
adue in mbar  reters (absolute)  rin m (zero reference is the altitude were ECU was  ride reached since ECU power up (zero reference is the spowered up)  reported by barometric sensor  re (inlet temperature in front of compressor). This d on engines which do have T0 temperature sensors.  In case there is no T0 sensor present a value of -100 rameter is available only on firmware 12.49 or higher.  retext string	RSS Read system status  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input  1. Dummy parameter (always read as 1) 042 (see Table) 0500 km/h 01023	→ ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input  1 042 (see Table) 0 500 km/h 0 1023	RSS Read system status  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input  1. Dummy parameter (always read as 1) 042 (see Table) 0500 km/h 01023	3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 0 500 km/h 0 1023	1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 1 042 (see Table) 0 500 km/h 0 500 km/h 0 1023
value in mbar neters (absolute) nin m (zero reference is the altitude were ECU was  ride reached since ECU power up (zero reference is the spowered up) prorted by barometric sensor are (inlet temperature in front of compressor). This don engines which do have T0 temperature sensors. In case there is no T0 sensor present a value of -100 rameter is available only on firmware 12.49 or higher.  1  1  1001100 -50011000 -100 11000 -30+60 -70.0 +100.0 -70.0 +100.0	RSS  Read system status  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 1 1 2. Off-Condition 942 (see Table) 9500 km/h 9500 km/h 91023 91023	→ ECU sends in handshake:  1. Dummy parameter (always read as 1)  2. Off-Condition  3. Actual Flight Speed  4. Proportional part of Speed regulator  5. AD-value of Airspeed input  6. AD-Zero value of Airspeed input  7. Dummy parameter (always read as 1)  9. 042 (see Table)  9. 0500 km/h  1. 01023  9. 1023	RSS Read system status  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter (always read as 1) 942 (see Table) 9500 km/h 91023 91023	3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 91023 91023	1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter (always read as 1) 8. 1 942 (see Table) 9500 km/h
reters (absolute)  rin m (zero reference is the altitude were ECU was  ride reached since ECU power up (zero reference is the spowered up)  ride ported by barometric sensor  ride (inlet temperature in front of compressor). This don engines which do have T0 temperature sensors.  In case there is no T0 sensor present a value of -100 rameter is available only on firmware 12.49 or higher.  titate transfer  in text string	RSS Read system status  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 7. Read values from 7. Dummy parameter to initiate transfer 9. Table 1. Dummy parameter to initiate transfer 9. AD-Value of Airspeed input 9	→ ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. PRPR Read values from 7. Dummy parameter to initiate transfer 7. Dummy parameter to initiate transfer 7. Dummy parameter to initiate transfer	RSS Read system status  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 7. Read values from 7. Dummy parameter to initiate transfer 7. Dummy parameter to initiate transfer 7. Dummy parameter to initiate transfer 9. Table 1. Dummy parameter to initiate transfer 9. Table 2. Dummy parameter to initiate transfer	3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input  RPR Read values from  3. Actual Flight Speed 9 500 km/h 9 1023 9 1023 9 1023	1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. RPR Read values from 7. Dummy parameter to initiate transfer
reters (absolute) -50011000 -100 11000	RSS Read system status  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8. Dummy parameter to initiate transfer 9. ECU sends in handshake:	→ ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8	RSS Read system status  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8. Dummy parameter to initiate transfer 9. ECU sends in handshake:	3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input  PRPR Read values from barometric pressure  3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer → ECU sends in handshake: 1	1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8. Read values from barometric pressure 9. Dummy parameter to initiate transfer 1. Dummy parameter to initiate transfer
and e reached since ECU power up (zero reference is the s powered up)  sported by barometric sensor are (inlet temperature in front of compressor). This don engines which do have T0 temperature sensors. In case there is no T0 sensor present a value of -100 arameter is available only on firmware 12.49 or higher.  tiate transfer  in text string	RSS Read system status  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 7. ⇒ ECU sends in handshake:  1. Dummy parameter to initiate transfer 7. ⇒ ECU sends in handshake:  1. Dummy parameter to initiate transfer 7. ⇒ ECU sends in handshake:	→ ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8	RSS Read system status  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 9. Read values from barometric pressure sensor  1. Dummy parameter to initiate transfer 7. ⇒ ECU sends in handshake:  1. Dummy parameter to initiate transfer 7. ⇒ ECU sends in handshake:	3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input  RPR Read values from barometric pressure sensor  3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer → ECU sends in handshake: 1	1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8. Read values from barometric pressure sensor 1. Dummy parameter to initiate transfer  → ECU sends in handshake:
s powered up) ported by barometric sensor ire (inlet temperature in front of compressor). This d on engines which do have T0 temperature sensors . In case there is no T0 sensor present a value of -100 irameter is available only on firmware 12.49 or higher.  tiate transfer : in text string	RSS Read system status  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 7. → ECU sends in handshake:  1. Dummy parameter to initiate transfer 7. → ECU sends in handshake:  1. Barometric pressure value in mbar  3001100	→ ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8 barometric pressure sensor 9 ECU sends in handshake: 1. Barometric pressure value in mbar 9 ECU sends in handshake: 3001100	RSS Read system status  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8 Read values from barometric pressure sensor  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Barometric pressure value in mbar  3001100	3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8 barometric pressure sensor 9 barometric pressure sensor 1. Barometric pressure value in mbar 3001100	1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8. Bead values from barometric pressure sensor 9. Dummy parameter to initiate transfer 9. ECU sends in handshake: 1. Barometric pressure value in mbar 9. 3001100
s powered up) ported by barometric sensor ire (inlet temperature in front of compressor). This d on engines which do have T0 temperature sensors . In case there is no T0 sensor present a value of -100 irameter is available only on firmware 12.49 or higher.  tiate transfer : in text string	RSS Read system status  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8 barometric pressure sensor  1. Dummy parameter to initiate transfer 9 ECU sends in handshake:  1. Dummy parameter to initiate transfer 9 ECU sends in handshake:  1. Barometric pressure value in mbar 2. Pressure altitude in meters (absolute)  3. Actual Flight Speed 942 (see Table)	→ ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8 barometric pressure sensor 8 ECU sends in handshake: 9 ECU sends in handshake: 1. Barometric pressure value in mbar 2. Pressure altitude in meters (absolute) 3 042 (see Table) 042 (see Table) 042 (see Table) 0500 km/h 1. Dumsy parameter to initiate transfer 3 01023	RSS Read system status  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8 barometric pressure sensor  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Barometric pressure value in mbar 2. Pressure altitude in meters (absolute)  1. Dummy parameter to initiate transfer 3001100 -50011000	3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8 barometric pressure sensor 9 barometric pressure sensor 1. Barometric pressure value in mbar 1. Barometric pressure value in mbar 2. Pressure altitude in meters (absolute) 3. Actual Flight Speed 0 500 km/h 1. 1023 1. 1023 1. 1023 1. 2001023	1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8 barometric pressure sensor 9 barometric pressure sensor 1. Barometric pressure value in mbar 1. Dummy parameter to initiate transfer 1. Barometric pressure value in mbar 2. Pressure altitude in meters (absolute) 3. Actual Flight Speed 942 (see Table) 9500 km/h 91023 91023 1. Dummy parameter to initiate transfer 1. ⇒ ECU sends in handshake: 9 and 1. Dummy parameter to initiate transfer 1. ⇒ ECU sends in handshake: 1. Barometric pressure value in mbar 2. Pressure altitude in meters (absolute)
ported by barometric sensor  re (inlet temperature in front of compressor). This d on engines which do have T0 temperature sensors . In case there is no T0 sensor present a value of -100 rameter is available only on firmware 12.49 or higher.  tiate transfer : n text string	RSS  Read system status  1. Dummy parameter to initiate transfer  ECU sends in handshake:  1. Dummy parameter (always read as 1)  2. Off-Condition  3. Actual Flight Speed  4. Proportional part of Speed regulator  5. AD-value of Airspeed input  6. AD-Zero value of Airspeed input  7. Dummy parameter to initiate transfer  barometric pressure sensor  1. Dummy parameter to initiate transfer  ECU sends in handshake:  1. Barometric pressure value in mbar  2. Pressure altitude in meters (absolute)  3. Current flight altitude in m (zero reference is the altitude were ECU was powered up)	The properties of the propert	RSS  Read system status  1. Dummy parameter to initiate transfer  ECU sends in handshake:  1. Dummy parameter (always read as 1)  2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer  barometric pressure sensor  1. Dummy parameter to initiate transfer  ECU sends in handshake:  1. Dummy parameter to initiate transfer  ECU sends in handshake:  1. Dummy parameter to initiate transfer  ECU sends in handshake:  1. Dummy parameter to initiate transfer  ECU sends in handshake:  3001100  -50011000  -100 11000  -100 11000	3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8 barometric pressure sensor 8 barometric pressure sensor 9 1. Barometric pressure value in mbar 1. Barometric pressure value in mbar 2. Pressure altitude in meters (absolute) 3. Current flight altitude in m (zero reference is the altitude were ECU was powered up) 4 . Dummy parameter to initiate transfer  3 0 1023 1 2 3 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8 barometric pressure sensor 8 barometric pressure sensor 9 barometric pressure sensor 1. Barometric pressure value in mbar 2. Pressure altitude in meters (absolute) 3. Current flight altitude in m (zero reference is the altitude were ECU was powered up) 1. Dummy parameter to initiate transfer 3001100 -50011000 -100 11000
rice (inlet temperature in front of compressor). This don engines which do have T0 temperature sensors. In case there is no T0 sensor present a value of -100 rameter is available only on firmware 12.49 or higher. tiate transfer:  n text string	RSS  Read system status  1. Dummy parameter to initiate transfer  ⇒ ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8 ⇒ ECU sends in handshake:  1. Dummy parameter to initiate transfer  ⇒ ECU sends in handshake:  1. Dummy parameter to initiate transfer  ⇒ ECU sends in handshake:  1. Barometric pressure value in mbar 2. Pressure altitude in meters (absolute) 3. Current flight altitude in m (zero reference is the altitude were ECU was powered up) 4. Maximum flight altitude reached since ECU power up (zero reference is the out.11000)	Dummy parameter (always read as 1)  1. Dummy parameter (always read as 1)  2. Off-Condition  3. Actual Flight Speed  4. Proportional part of Speed regulator  5. AD-value of Airspeed input  6. AD-Zero value of Airspeed input  7. Dummy parameter to initiate transfer  ⇒ ECU sends in handshake:  1. Dummy parameter to initiate transfer  ⇒ ECU sends in handshake:  1. Barometric pressure value in mbar  2. Pressure altitude in meters (absolute)  3. Current flight altitude in m (zero reference is the altitude were ECU was powered up)  4. Maximum flight altitude reached since ECU power up (zero reference is the o11000)	RSS Read system status  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 7. ⇒ ECU sends in handshake:  1. Dummy parameter to initiate transfer 7. ⇒ ECU sends in handshake:  1. Barometric pressure sensor 1. Barometric pressure value in mbar 2. Pressure altitude in meters (absolute) 3. Current flight altitude in m (zero reference is the altitude were ECU was powered up) 4. Maximum flight altitude reached since ECU power up (zero reference is the 011000	3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8 barometric pressure sensor 8 barometric pressure sensor 9 1. Barometric pressure value in mbar 1. Barometric pressure value in mbar 2. Pressure altitude in meters (absolute) 3. Current flight altitude in m (zero reference is the altitude were ECU was powered up) 4. Maximum flight altitude reached since ECU power up (zero reference is the 011000	1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8 barometric pressure sensor 8 barometric pressure sensor 9 barometric pressure sensor 1. Barometric pressure value in mbar 2. Pressure altitude in meters (absolute) 3. Current flight altitude in m (zero reference is the altitude were ECU was powered up) 4. Maximum flight altitude reached since ECU power up (zero reference is the 011000
d on engines which do have T0 temperature sensors . In case there is no T0 sensor present a value of -100 rameter is available only on firmware 12.49 or higher.  tiate transfer : n text string	RSS Read system status  1. Dummy parameter to initiate transfer  ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8 Bread values from barometric pressure sensor  Firmware 12.45 or higher required!  1. Barometric pressure value in mbar 2. Pressure altitude in meters (absolute) 3. Current flight altitude in m (zero reference is the altitude were ECU was powered up) 4. Maximum flight altitude reached since ECU power up (zero reference is the altitude o11000  1. Dummy parameter to initiate transfer  ⇒ ECU sends in handshake:  3001100  -50011000  -100 11000	Dummy parameter (always read as 1)  Off-Condition  Actual Flight Speed  Proportional part of Speed regulator  AD-value of Airspeed input  AD-Zero value of Airspeed input  AD-Zero value of Airspeed input  Dummy parameter to initiate transfer  ECU sends in handshake:  1. Dummy parameter to initiate transfer  ECU sends in handshake:  1. Barometric pressure sensor  1. Barometric pressure value in mbar  2. Pressure altitude in meters (absolute)  3. Current flight altitude in meters (absolute)  4. Maximum flight altitude reached since ECU power up (zero reference is the altitude outlined by the altitude were ECU was powered up)  Adaptive Table 1  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Barometric pressure value in mbar  2. Pressure altitude in meters (absolute)  3. Current flight altitude in meters (absolute)  3. Current flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up)	RSS Read system status  1. Dummy parameter to initiate transfer  ⇒ ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8 Read values from barometric pressure sensor  Firmware 12.45 or higher required!  1. Barometric pressure value in mbar 2. Pressure altitude in meters (absolute) 3. Current flight altitude in m (zero reference is the altitude were ECU was powered up)  4. Maximum flight altitude reached since ECU power up (zero reference is the altitude o11000	3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8 barometric pressure sensor 8 barometric pressure sensor 9 1. Barometric pressure value in mbar 1. Barometric pressure value in mbar 2. Pressure altitude in meters (absolute) 3. Current flight altitude in m (zero reference is the altitude were ECU was powered up) 4. Maximum flight altitude reached since ECU power up (zero reference is the altitude o1000	1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8. Barometric pressure sensor 8. Barometric pressure value in mbar 9. ECU sends in handshake: 9. Pressure altitude in meters (absolute) 9. Current flight altitude in m (zero reference is the altitude were ECU was powered up) 9. Maximum flight altitude reached since ECU power up (zero reference is the altitude ommonth of the altitude were ECU was powered up) 9. Maximum flight altitude reached since ECU power up (zero reference is the altitude ommonth of the altitude were ECU was powered up) 9. Maximum flight altitude reached since ECU power up (zero reference is the altitude ommonth of the altitude were ECU was powered up) 9. Current flight altitude reached since ECU power up (zero reference is the altitude ommonth of the altitude were ECU was powered up) 9. Current flight altitude reached since ECU power up (zero reference is the altitude ommonth of the altitude were ECU was powered up) 9. Current flight altitude reached since ECU power up (zero reference is the altitude ommonth of the altitude were ECU was powered up) 9. Current flight altitude reached since ECU power up (zero reference is the altitude ommonth of the altitude were ECU was powered up) 9. Current flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up)
In case there is no T0 sensor present a value of -100 rameter is available only on firmware 12.49 or higher.  tiate transfer : n text string	RSS Read system status  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  3001100  -50011000  -100 11000  -100 11000  -100 11000  -100 11000  -100 11000  -100 11000  -100 11000	Dummy parameter (always read as 1)  1. Dummy parameter (always read as 1)  2. Off-Condition  3. Actual Flight Speed  4. Proportional part of Speed regulator  5. AD-value of Airspeed input  6. AD-Zero value of Airspeed input  7. Dummy parameter to initiate transfer  8 barometric pressure sensor  8 barometric pressure sensor  1. Barometric pressure value in mbar  2. Pressure altitude in meters (absolute)  3. Current flight altitude in m (zero reference is the altitude were ECU was powered up)  4. Maximum flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up)  5. Temperature value reported by barometric sensor  3. Outling in the day in the company in the power up (zero reference is the altitude were ECU was powered up)  5. Temperature value reported by barometric sensor  3. Outling in the company in the power up (zero reference is the altitude were ECU was powered up)  3. Outling in the power up (zero reference is the altitude were ECU was powered up)  4. Maximum flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up)  5. Temperature value reported by barometric sensor  3. Outling in the power in	RSS Read system status  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8 barometric pressure sensor  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  3001100  -50011000  -50011000  -100 11000  -100 11000  -100 11000  -100 11000  -100 11000  -100 11000  -100 11000  -100 11000  -100 11000  -100 11000  -100 11000	3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8 barometric pressure sensor 8 l. Barometric pressure value in mbar 9 l. Barometric pressure value in mbar 1. Barometric pressure value in mbar 2. Pressure altitude in meters (absolute) 3. Current flight altitude in m (zero reference is the altitude were ECU was powered up) 4. Maximum flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 5. Temperature value reported by barometric sensor 3 01023 1 1 1 2 2 2 3 01023 2 3 01023 2 1 2 3 01023 2 1 3 1 2 3 1	1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8 barometric pressure sensor 8 barometric pressure sensor 9 1. Dummy parameter to initiate transfer 1 → ECU sends in handshake: 1. Barometric pressure value in mbar 2. Pressure altitude in meters (absolute) 3. Current flight altitude in m (zero reference is the altitude were ECU was powered up) 4. Maximum flight altitude reached since ECU power up (zero reference is the altitude outlined of the altitude were ECU was powered up) 5. Temperature value reported by barometric sensor 3042 (see Table) 042 (see Table) 042 (see Table) 01023 01023
rameter is available only on firmware 12.49 or higher.  tiate transfer : n text string	RSS Read system status  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8 → ECU sends in handshake:  RPR Read values from barometric pressure sensor  1. Dummy parameter to initiate transfer 9 → ECU sends in handshake:  1. Barometric pressure value in mbar 2. Pressure altitude in meters (absolute) 3. Current flight altitude in m (zero reference is the altitude were ECU was powered up) 4. Maximum flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 5. Temperature value reported by barometric sensor 6. To air inlet temperature (inlet temperature in front of compressor). This  1. Dummy parameter to initiate transfer 9. C. 10.3 01023 91023 91023 91023 91023 91023 91023 91000 911000 911000 911000	The properties of the propert	RSS Read system status  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8 barometric pressure sensor 8 barometric pressure sensor 1. Barometric pressure value in mbar 1. Barometric pressure value in mbar 2. Pressure altitude in meters (absolute) 3. Current flight altitude in m (zero reference is the altitude were ECU was powered up) 4. Maximum flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 5. Temperature value reported by barometric sensor 6. To air inlet temperature (inlet temperature in front of compressor). This  1. Dummy parameter to initiate transfer 9. Cu. 1023 91023 91023 91023 91023 91023 91023 91023 91000 911000 911000 911000 911000 911000	3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8 barometric pressure sensor 8 l. Barometric pressure value in mbar 9 l. Barometric pressure value in mbar 1. Barometric pressure value in mbar 2. Pressure altitude in meters (absolute) 3. Current flight altitude in m (zero reference is the altitude were ECU was powered up) 4. Maximum flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 5. Temperature value reported by barometric sensor 6. To air inlet temperature (inlet temperature in front of compressor). This 7 c. 10 c. 1023 1 c. 1023 1 c. 1023 2 c. 10	1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8 barometric pressure sensor 8 current flight altitude in meters (absolute) 9 current flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 9 current flight altitude reported by barometric sensor 1. Dummy parameter to initiate transfer 9 ECU sends in handshake: 1 current flight altitude in mbar 2. Pressure altitude in meters (absolute) 3. Current flight altitude in m (zero reference is the altitude were ECU was powered up) 4. Maximum flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 5. Temperature value reported by barometric sensor 6. To air inlet temperature (inlet temperature in front of compressor). This 7 current flight altitude reached since ECU power up (zero reference is the altitude vere ECU was powered up) 5. Temperature value reported by barometric sensor 6. To air inlet temperature (inlet temperature in front of compressor). This
tiate transfer 1 : n text string	RSS Read system status  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 7. ⇒ ECU sends in handshake:  RPR Read values from barometric pressure sensor  Firmware 12.45 or higher required! 1. Barometric pressure value in mbar 2. Pressure altitude in meters (absolute) 3. Current flight altitude in m (zero reference is the altitude were ECU was powered up) 4. Maximum flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 5. Temperature value reported by barometric sensor 6. T0 air inlet temperature (inlet temperature in front of compressor). This parameter is only valid on engines which do have T0 temperature sensors	## Decoused in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8 ⇒ ECU sends in handshake:  1. Dummy parameter to initiate transfer 9 ⇒ ECU sends in handshake:  1. Barometric pressure sensor 1. Barometric pressure value in mbar 2. Pressure altitude in meters (absolute) 3. Current flight altitude in m (zero reference is the altitude were ECU was powered up) 4. Maximum flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 5. Temperature value reported by barometric sensor 6. To air inlet temperature (inlet temperature in front of compressor). This parameter is only valid on engines which do have T0 temperature sensors	RSS Read system status  1. Dummy parameter to initiate transfer  ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8 barometric pressure sensor 8 Firmware 12.45 or higher required! 9 Firmware 12.45 or higher required! 1. Barometric pressure value in mbar 2. Pressure altitude in meters (absolute) 3. Current flight altitude in m (zero reference is the altitude were ECU was powered up) 4. Maximum flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 5. Temperature value reported by barometric sensor 6. To air inlet temperature (inlet temperature in front of compressor). This parameter is only valid on engines which do have T0 temperature sensors	3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8 barometric pressure sensor 8 1. Barometric pressure value in mbar 9 ECU sends in handshake: 9 1. Barometric pressure value in mbar 1. Barometric pressure value in mbar 2. Pressure altitude in meters (absolute) 3. Current flight altitude in m (zero reference is the altitude were ECU was powered up) 4. Maximum flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 5. Temperature value reported by barometric sensor 6. To air inlet temperature (inlet temperature in front of compressor). This parameter is only valid on engines which do have T0 temperature sensors	1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8 barometric pressure 8 sensor 8 1. Dummy parameter to initiate transfer 9 ECU sends in handshake: 9 1. Barometric pressure value in mbar 1. Barometric pressure value in mbar 2. Pressure altitude in meters (absolute) 3. Current flight altitude in m (zero reference is the altitude were ECU was powered up) 4. Maximum flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 5. Temperature value reported by barometric sensor 6. To air inlet temperature (inlet temperature in front of compressor). This parameter is only valid on engines which do have T0 temperature sensors
: n text string	RSS Read system status  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Barometric pressure sensor 1. Barometric pressure value in mbar 2. Pressure altitude in meters (absolute) 3. Current flight altitude in m (zero reference is the altitude were ECU was powered up) 4. Maximum flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 5. Temperature value reported by barometric sensor 6. To air inlet temperature (inlet temperature in front of compressor). This parameter is only valid on engines which do have T0 temperature sensors mounted (e.g. P1000). In case there is no T0 sensor present a value of -100	The properties of the parameter (always read as 1)  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8 barometric pressure sensor 8 arometric pressure value in mbar 9 barometric pressure value in mbar 1. Barometric pressure value in mbar 2. Pressure altitude in meters (absolute) 3. Current flight altitude in m (zero reference is the altitude were ECU was powered up) 4. Maximum flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 5. Temperature value reported by barometric sensor 6. To air inlet temperature (inlet temperature in front of compressor). This parameter is only valid on engines which do have T0 temperature sensors mounted (e.g. P1000). In case there is no T0 sensor present a value of -100	RSS Read system status  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8 Head values from barometric pressure sensor 8 Firmware 12.45 or higher required! 1. Barometric pressure value in mbar 2. Pressure altitude in meters (absolute) 3. Current flight altitude in m (zero reference is the altitude were ECU was powered up) 4. Maximum flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 5. Temperature value reported by barometric sensor 4. Temperature inlet temperature in front of compressor). This parameter is only valid on engines which do have T0 temperature sensors mounted (e.g. P1000). In case there is no T0 sensor present a value of -100.	3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8 barometric pressure sensor 8 barometric pressure sensor 9 c	1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8 barometric pressure sensor 8 Firmware 12.45 or higher required! 9 1. Barometric pressure value in mbar 2. Pressure altitude in meters (absolute) 3. Current flight altitude in m (zero reference is the altitude were ECU was powered up) 4. Maximum flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 5. Temperature value reported by barometric sensor 6. To air inlet temperature (inlet temperature in front of compressor). This parameter is only valid on engines which do have T0 temperature sensors mounted (e.g. P1000). In case there is no T0 sensor present a value of -100
: n text string	RSS Read system status  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 7. ⇒ ECU sends in handshake:  RPR Read values from barometric pressure sensor 1. Barometric pressure value in mbar 2. Pressure altitude in meters (absolute) 3. Current flight altitude in m (zero reference is the altitude were ECU was powered up) 4. Maximum flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 5. Temperature value reported by barometric sensor 6. To air inlet temperature (inlet temperature in front of compressor). This parameter is only valid on engines which do have T0 temperature sensors	The properties of the parameter (always read as 1)  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8 barometric pressure sensor 8 arometric pressure value in mbar 9 barometric pressure value in mbar 1. Barometric pressure value in mbar 2. Pressure altitude in meters (absolute) 3. Current flight altitude in m (zero reference is the altitude were ECU was powered up) 4. Maximum flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 5. Temperature value reported by barometric sensor 6. To air inlet temperature (inlet temperature in front of compressor). This parameter is only valid on engines which do have T0 temperature sensors mounted (e.g. P1000). In case there is no T0 sensor present a value of -100	RSS Read system status  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8 Head values from barometric pressure sensor 8 Firmware 12.45 or higher required! 1. Barometric pressure value in mbar 2. Pressure altitude in meters (absolute) 3. Current flight altitude in m (zero reference is the altitude were ECU was powered up) 4. Maximum flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 5. Temperature value reported by barometric sensor 4. Temperature inlet temperature in front of compressor). This parameter is only valid on engines which do have T0 temperature sensors mounted (e.g. P1000). In case there is no T0 sensor present a value of -100.	3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8 barometric pressure sensor 8 barometric pressure sensor 9 c	1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8 barometric pressure sensor 8 Firmware 12.45 or higher required! 9 1. Barometric pressure value in mbar 2. Pressure altitude in meters (absolute) 3. Current flight altitude in m (zero reference is the altitude were ECU was powered up) 4. Maximum flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 5. Temperature value reported by barometric sensor 6. To air inlet temperature (inlet temperature in front of compressor). This parameter is only valid on engines which do have T0 temperature sensors mounted (e.g. P1000). In case there is no T0 sensor present a value of -100
=	RSS Read system status  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 9 barometric pressure sensor 1. Dummy parameter to initiate transfer 9 ECU sends in handshake:  1. Dummy parameter to initiate transfer 9 ECU sends in handshake:  1. Dummy parameter to initiate transfer 9 ECU sends in handshake:  2. Pressure altitude in mbar 2. Pressure altitude in mbar 2. Pressure altitude in m (zero reference is the altitude were ECU was powered up) 4. Maximum flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 5. Temperature value reported by barometric sensor 6. To air inlet temperature (inlet temperature in front of compressor). This parameter is only valid on engines which do have T0 temperature sensors mounted (e.g. P1000). In case there is no T0 sensor present a value of -100 is transferred. This parameter is available only on firmware 12.49 or higher.	Dummy parameter (always read as 1)  2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer PECU sends in handshake:  1. Dummy parameter to initiate transfer PECU sends in handshake:  1. Barometric pressure sensor  1. Barometric pressure value in mbar 2. Pressure altitude in meters (absolute) 3. Current flight altitude in m (zero reference is the altitude were ECU was powered up) 4. Maximum flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 5. Temperature value reported by barometric sensor 6. To air inlet temperature (inlet temperature in front of compressor). This parameter is only valid on engines which do have T0 temperature sensors mounted (e.g. P1000). In case there is no T0 sensor present a value of -100 is transferred. This parameter is available only on firmware 12.49 or higher.	RSS  Read system status  1. Dummy parameter to initiate transfer  ⇒ ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8. Barometric pressure sensor 8. Barometric pressure value in mbar 9. ECU sends in handshake:  1. Dummy parameter to initiate transfer  ⇒ ECU sends in handshake:  1. Barometric pressure value in mbar 2. Pressure altitude in meters (absolute) 3. Current flight altitude in m (zero reference is the altitude were ECU was powered up) 4. Maximum flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 5. Temperature value reported by barometric sensor 6. To air inlet temperature (inlet temperature in front of compressor). This parameter is only valid on engines which do have T0 temperature sensors mounted (e.g. P1000). In case there is no T0 sensor present a value of -100 is transferred. This parameter is available only on firmware 12.49 or higher.	3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer ⇒ ECU sends in handshake:  1. Barometric pressure value in mbar 2. Pressure altitude in meters (absolute) 3. Current flight altitude in m (zero reference is the altitude were ECU was powered up) 4. Maximum flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 5. Temperature value reported by barometric sensor 6. T0 air inlet temperature (inlet temperature in front of compressor). This parameter is only valid on engines which do have T0 temperature sensors mounted (e.g. P1000). In case there is no T0 sensor present a value of -100 is transferred. This parameter is available only on firmware 12.49 or higher.	1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8 ECU sends in handshake: 8 Pressure sensor 8 I. Barometric pressure value in mbar 9 ECU sends in handshake: 9 Pressure altitude in meters (absolute) 9 Current flight altitude in m (zero reference is the altitude were ECU was powered up) 9 Amaximum flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 9 Temperature value reported by barometric sensor 9 Co1000 10011000 10011000 10011000 10011000 10011000 10011000 10011000 10011000 10011000 10011000 10011000
=	RSS Read system status  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 9 barometric pressure sensor 1. Dummy parameter to initiate transfer 9 ECU sends in handshake:  1. Dummy parameter to initiate transfer 9 ECU sends in handshake:  1. Dummy parameter to initiate transfer 9 ECU sends in handshake:  2. Pressure altitude in mbar 2. Pressure altitude in mbar 2. Pressure altitude in m (zero reference is the altitude were ECU was powered up) 4. Maximum flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 5. Temperature value reported by barometric sensor 6. To air inlet temperature (inlet temperature in front of compressor). This parameter is only valid on engines which do have T0 temperature sensors mounted (e.g. P1000). In case there is no T0 sensor present a value of -100 is transferred. This parameter is available only on firmware 12.49 or higher.	### DECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8. Bead values from barometric pressure sensor 8. ECU sends in handshake: 9. Pressure altitude in mbar 9. Current flight altitude in meters (absolute) 9. Current flight altitude in m (zero reference is the altitude were ECU was powered up) 9. Maximum flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 9. Temperature value reported by barometric sensor 9. To air inlet temperature (inlet temperature in front of compressor). This parameter is only valid on engines which do have T0 temperature sensors mounted (e.g. P1000). In case there is no T0 sensor present a value of -100 is transferred. This parameter is available only on firmware 12.49 or higher.  RTY Read Information 1. Dummy parameter to initiate transfer 1	RSS Read system status  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. AD-value of Airspeed input 8. AD-value of Airspeed input 9. I. Dummy parameter to initiate transfer 9. ECU sends in handshake:  1. Dummy parameter to initiate transfer 9. ECU sends in handshake:  1. Dummy parameter to initiate transfer 9. ECU sends in handshake:  1. Barometric pressure value in mbar 2. Pressure altitude in meters (absolute) 3. Current flight altitude in m (zero reference is the altitude were ECU was powered up) 4. Maximum flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 5. Temperature value reported by barometric sensor 6. To air inlet temperature (inlet temperature in front of compressor). This parameter is only valid on engines which do have T0 temperature sensors mounted (e.g. P1000). In case there is no T0 sensor present a value of -100 is transferred. This parameter is available only on firmware 12.49 or higher.  RTY Read Information 1. Dummy parameter to initiate transfer 1	3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8 barometric pressure sensor 8 barometric pressure sensor 9 current flight altitude in meters (absolute) 9 current flight altitude in m (zero reference is the altitude were ECU was powered up) 9 current flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 9 current flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 9 current flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 9 current flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 9 current flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 9 current flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 9 current flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 9 current flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 9 current flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 9 current flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 9 current flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 9 current flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 9 current flight altitude in m (zero reference is the altitude were ECU was powered up) 9 current flight altitude in m (zero reference is the altitude were ECU was powered up) 9 current flight altitude in m (zero reference is the altitude were ECU was powered up) 9 current flight altitude in m (zero reference is the altitude were ECU was powered up) 9 current fl	1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8 barometric pressure sensor 8 barometric pressure sensor 9
n number	RSS Read system status  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8 barometric pressure sensor 8	### DECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8. Bead values from barometric pressure sensor 8. ECU sends in handshake: 9. Pressure altitude in mbar 9. Current flight altitude in meters (absolute) 9. Current flight altitude in m (zero reference is the altitude were ECU was powered up) 9. Maximum flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 9. Temperature value reported by barometric sensor 9. To air inlet temperature (inlet temperature in front of compressor). This parameter is only valid on engines which do have T0 temperature sensors mounted (e.g. P1000). In case there is no T0 sensor present a value of -100 is transferred. This parameter is available only on firmware 12.49 or higher.  RTY Read Information 1. Dummy parameter to initiate transfer 1	RSS Read system status  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. AD-value of Airspeed input 8. AD-value of Airspeed input 9. I. Dummy parameter to initiate transfer 9. ECU sends in handshake:  1. Dummy parameter to initiate transfer 9. ECU sends in handshake:  1. Dummy parameter to initiate transfer 9. ECU sends in handshake:  1. Barometric pressure value in mbar 2. Pressure altitude in meters (absolute) 3. Current flight altitude in m (zero reference is the altitude were ECU was powered up) 4. Maximum flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 5. Temperature value reported by barometric sensor 6. To air inlet temperature (inlet temperature in front of compressor). This parameter is only valid on engines which do have T0 temperature sensors mounted (e.g. P1000). In case there is no T0 sensor present a value of -100 is transferred. This parameter is available only on firmware 12.49 or higher.  RTY Read Information 1. Dummy parameter to initiate transfer 1	3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8 barometric pressure sensor 8 barometric pressure sensor 9 current flight altitude in meters (absolute) 9 current flight altitude in m (zero reference is the altitude were ECU was powered up) 9 current flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 9 current flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 9 current flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 9 current flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 9 current flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 9 current flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 9 current flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 9 current flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 9 current flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 9 current flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 9 current flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 9 current flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 9 current flight altitude in m (zero reference is the altitude were ECU was powered up) 9 current flight altitude in m (zero reference is the altitude were ECU was powered up) 9 current flight altitude in m (zero reference is the altitude were ECU was powered up) 9 current flight altitude in m (zero reference is the altitude were ECU was powered up) 9 current fl	1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8 barometric pressure sensor 8 barometric pressure sensor 9
	RSS Read system status  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8 barometric pressure sensor  1. Barometric pressure value in mbar 2. Pressure altitude in meters (absolute) 3. Current flight altitude in m (zero reference is the altitude were ECU was powered up) 4. Maximum flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 5. Temperature value reported by barometric sensor 6. To air inlet temperature (inlet temperature in front of compressor). This parameter is only valid on engines which do have T0 temperature sensors mounted (e.g. P1000). In case there is no T0 sensor present a value of -100 is transferred. This parameter is available only on firmware 12.49 or higher.  RTY Read Information  1. Dummy parameter to initiate transfer	The properties of the properties of the properties of the properties of the parameter is only valid on engines which do have TO temperature sensors mounted (e.g. P1000). In case there is no To sensor present a value of -100 is transferred. This parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter to initiate transfer → ECU sends in handshake:  1. Dummy parameter to initiate transfer → ECU sends in handshake:  1. Dummy parameter to initiate transfer → ECU sends in handshake:  1. Dummy parameter to initiate transfer → ECU sends in handshake:  1. Dummy parameter to initiate transfer → ECU sends in handshake:  1. Dummy parameter is only valid on engines which do have TO temperature sensors mounted (e.g. P1000). In case there is no TO sensor present a value of -100 is transferred. This parameter is available only on firmware 12.49 or higher.  RTY  Read Information  1. Dummy parameter to initiate transfer → ECU sends in handshake:  1. Dummy parameter to initiate transfer → ECU sends in handshake:	RSS  Read system status  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. AD-value of Airspeed input 8. AD-Zero value of Airspeed input 9. Loummy parameter to initiate transfer  → ECU sends in handshake:  1. Barometric pressure sensor 1. Barometric pressure value in mbar 2. Pressure altitude in meters (absolute) 3. Current flight altitude in m (zero reference is the altitude were ECU was powered up) 4. Maximum flight altitude in m (zero reference is the altitude were ECU was powered up) 5. Temperature value reported by barometric sensor 6. To air inlet temperature (inlet temperature in front of compressor). This parameter is only valid on engines which do have T0 temperature sensors mounted (e.g. P1000). In case there is no T0 sensor present a value of -100 is transferred. This parameter is available only on firmware 12.49 or higher.  RTY  Read Information  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter to initiate transfer  → ECU sends in handshake:	3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer → ECU sends in handshake: 8. Pressure altitude in meters (absolute) 8. Current flight altitude in m (zero reference is the altitude were ECU was powered up) 9. Temperature value reported by barometric sensor 9. To air inlet temperature (inlet temperature in front of compressor). This parameter is only valid on engines which do have T0 temperature sensors mounted (e.g. P1000). In case there is no T0 sensor present a value of -100 is transferred. This parameter is available only on firmware 12.49 or higher.  8. Actual Flight Speed 9 1023 9 102	1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8 ECU sends in handshake:  1. Barometric pressure value in mbar 2. Pressure altitude in meters (absolute) 3. Current flight altitude in m (zero reference is the altitude were ECU was powered up) 4. Maximum flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 5. Temperature value reported by barometric sensor 6. To air inlet temperature (inlet temperature in front of compressor). This parameter is only valid on engines which do have T0 temperature sensors mounted (e.g. P1000). In case there is no T0 sensor present a value of -100 is transferred. This parameter is available only on firmware 12.49 or higher.  RTY  Read Information  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1 042 (see Table) 0500 km/h 01023 01023 01023  3001100 -50011000 -50011000 -50011000 -50011000 -70011000 -70011000 011000 011000 011000 11100
	RSS Read system status  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter (always read as 1)  2. Off-Condition  3. Actual Flight Speed  4. Proportional part of Speed regulator  5. AD-value of Airspeed input  6. AD-Zero value of Airspeed input  7. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Barometric pressure value in mbar  2. Pressure altitude in meters (absolute)  3. Current flight altitude in meters (absolute)  4. Maximum flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up)  4. Maximum flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up)  5. Temperature value reported by barometric sensor  6. To air inlet temperature (inlet temperature in front of compressor). This parameter is only valid on engines which do have T0 temperature sensors mounted (e.g. P1000). In case there is no T0 sensor present a value of -100 is transferred. This parameter is available only on firmware 12.49 or higher.  RTY  Read Information  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. firmware version text string  2. Firmware version number	## DECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8 barometric pressure 8 sensor 1. Barometric pressure value in mbar 2. Pressure altitude in meters (absolute) 3. Current flight altitude in m (zero reference is the altitude were ECU was powered up) 4. Maximum flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 5. Temperature value reported by barometric sensor 6. To air inlet temperature (inlet temperature in front of compressor). This parameter is only valid on engines which do have T0 temperature sensors mounted (e.g. P1000). In case there is no T0 sensor present a value of -100 is transferred. This parameter is available only on firmware 12.49 or higher.  **RTY**  **Read Information**  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. firmware version text string 2. Firmware version number	RSS Read system status  1. Dummy parameter to initiate transfer → ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer → ECU sends in handshake:  1. Barometric pressure sensor Firmware 12.45 or higher required!  1. Barometric pressure value in mbar 2. Pressure altitude in meters (absolute) 3. Current flight altitude in m (zero reference is the altitude were ECU was powered up) 4. Maximum flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 5. Temperature value reported by barometric sensor 6. To air inlet temperature (inlet temperature in front of compressor). This parameter is only valid on engines which do have T0 temperature sensors mounted (e.g. P1000). In case there is no T0 sensor present a value of -100 is transferred. This parameter is available only on firmware 12.49 or higher.  RTY  Read Information  1. Dummy parameter to initiate transfer → ECU sends in handshake:  1. firmware version text string 2. Firmware version number	3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 7. ⇒ ECU sends in handshake: 8. Pressure altitude in meters (absolute) 9. Current flight altitude in m (zero reference is the altitude were ECU was powered up) 9. Maximum flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 9. Temperature value reported by barometric sensor 9. To air inlet temperature (inlet temperature in front of compressor). This parameter is only valid on engines which do have T0 temperature sensors mounted (e.g. P1000). In case there is no T0 sensor present a value of -100 is transferred. This parameter is available only on firmware 12.49 or higher.  8. Read Information 9. Lourny parameter to initiate transfer 9. ECU sends in handshake: 1. firmware version text string 2. Firmware version number	1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8. ECU sends in handshake: 8. Barometric pressure sensor 9. ECU sends in handshake: 9. Pressure altitude in meters (absolute) 1. Dummy parameter to initiate transfer 9. ECU sends in handshake: 9. Pressure altitude in meters (absolute) 1. Current flight altitude in meters (absolute) 1. Maximum flight altitude in meters (absolute) 2. Pressure altitude were ECU was powered up) 3. Current flight altitude in meters (absolute) 3. Current flight altitude in meters (absolute) 3. Current flight altitude in meters (absolute) 3. Temperature value reported by barometric sensor 9. Temperature value reported by barometric sensor 1. Temperature value reported by barometric sensor of the altitude were ECU was powered up) 3. Temperature value negorited by barometric sensor 6. To air inlet temperature (inlet temperature in front of compressor). This parameter is only valid on engines which do have T0 temperature sensors mounted (e.g. P1000). In case there is no T0 sensor present a value of -100 is transferred. This parameter is available only on firmware 12.49 or higher.  RTY  Read Information  1. Dummy parameter to initiate transfer 9 ECU sends in handshake: 1. firmware version text string 2. Firmware version number
time	RSS  Read system status  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Barometric pressure value in mbar 2. Pressure altitude in meters (absolute) 3. Current flight altitude in m (zero reference is the altitude were ECU was powered up) 4. Maximum flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 5. Temperature value reported by barometric sensor 6. To air inlet temperature (inlet temperature in front of compressor). This parameter is only valid on engines which do have T0 temperature sensors mounted (e.g. P1000). In case there is no T0 sensor present a value of -100 is transferred. This parameter is available only on firmware 12.49 or higher.  RTY  Read Information  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. firmware version text string 2. Firmware version text string 3. Last Run Time  1. Last Run Time	## DECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8 Decumple of Pressure sensor 8 Decumple of Pressure value in mbar 9 Decumple of Pressure value in mbar 1. Barometric pressure value in mbar 1. Barometric pressure value in mbar 2. Pressure altitude in meters (absolute) 3. Current flight altitude in meters (absolute) 4. Maximum flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 5. Temperature value reported by barometric sensor 6. To air inlet temperature (inlet temperature in front of compressor). This parameter is only valid on engines which do have T0 temperature sensors mounted (e.g. P1000). In case there is no T0 sensor present a value of -100 is transferred. This parameter is available only on firmware 12.49 or higher.  ### Read Information 1. Dummy parameter to initiate transfer ### DECU sends in handshake:  1. firmware version text string 2. Firmware version text string 3. Last Run Time	RSS Read system status  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8. ECU sends in handshake:  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Barometric pressure sensor  1. Barometric pressure value in mbar 2. Pressure altitude in meters (absolute) 3. Current flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 4. Maximum flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 5. Temperature value reported by barometric sensor 6. To air inlet temperature (inlet temperature in front of compressor). This parameter is only valid on engines which do have T0 temperature sensors mounted (e.g. P1000). In case there is no T0 sensor present a value of -100 is transferred this parameter is available only on firmware 12.49 or higher.  RRTY  Read Information  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. firmware version text string 2. Firmware version number 3. Last Run Time	3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 7. ECU sends in handshake: 8. Barometric pressure sensor 9. ECU sends in handshake: 9. Pressure altitude in meters (absolute) 9. Current flight altitude in m (zero reference is the altitude were ECU was powered up) 9. Maximum flight altitude reached since ECU power up (zero reference is the altitude were ECU was prowered up) 9. Temperature value reported by barometric sensor 9. To air inlet temperature (inlet temperature in front of compressor). This parameter is only valid on engines which do have TO temperature sensors mounted (e.g. P1000). In case there is no TO sensor present a value of -100 is transferred. This parameter is available only on firmware 12.49 or higher.  RETY  Read Information 1. Dummy parameter to initiate transfer 7. ECU sends in handshake: 1. firmware version text string 2. Firmware version number 3. Last Run Time	1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8 barometric pressure sensor 8. Barometric pressure value in mbar 8. ECU sends in handshake: 9 ECU sends in handshake: 1. Barometric pressure value in mbar 2. Pressure altitude in meters (absolute) 3. Current flight altitude in meters (absolute) 4. Maximum flight altitude in meters (absolute) 5. Temperature value reported by barometric sensor 6. T0 air inlet temperature (inlet temperature in front of compressor). This parameter is only valid on engines which do have T0 temperature sensors mounted (e.g. P1000). In case there is no T0 sensor present a value of -100 is transferred. This parameter is available only on firmware 12.49 or higher.  RTY  Read Information  1. Dummy parameter to initiate transfer 2. Firmware version text string 2. Firmware version number 3. Last Run Time
	RSS  Read system status  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 7. ECU sends in handshake: 8 Barometric pressure sensor 9 L. Barometric pressure value in mbar 1. Barometric pressure value in mbar 2. Pressure altitude in meters (absolute) 3. Current flight altitude in meters (absolute) 4. Maximum flight altitude in meters (absolute) 5. Temperature value reported by barometric sensor 6. To air inlet temperature (inlet temperature in front of compressor). This parameter is only valid on engines which do have TO temperature sensors mounted (e.g. P1000). In case there is no TO sensor present a value of -100 is transferred. This parameter is available only on firmware 12.49 or higher.  RTY  Read Information  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. firmware version text string 2. Firmware version number 3. Last Run Time 4. Total Operation time	The ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8. ECU sends in handshake:  1. Dummy parameter to initiate transfer  ★ ECU sends in handshake:  1. Barometric pressure value in mbar 2. Pressure altitude in meters (absolute) 3. Current flight altitude in meters (absolute) 4. Maximum flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 5. Temperature value reported by barometric sensor 6. To air inlet temperature (inlet temperature in front of compressor). This parameter is only valid on engines which do have T0 temperature sensors mounted (e.g. P1000). In case there is no T0 sensor present a value of -100 is transferred. This parameter is available only on firmware 12.49 or higher.  1. Dummy parameter to initiate transfer  ★ ECU sends in handshake:  1. firmware version text string 2. Firmware version number 3. Last Run Time 4. Total Operation time	RSS Read system status  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. AD-value of Airspeed input 8. AD-Zero value of Airspeed input 9. ECU sends in handshake:  1. Barometric pressure sensor 1. Barometric pressure value in mbar 2. Pressure altitude in meters (absolute) 3. Current flight altitude in meters (absolute) 4. Maximum flight altitude in meters (absolute) 5. Temperature value reported by barometric sensor 6. To air inlet temperature (inlet temperature infort of compressor). This parameter is only valid on engines which do have T0 temperature sensors mounted (e.g. P1000). In case there is no T0 sensor present a value of -100 is transferred. This parameter is available only on firmware 12.49 or higher.  RTY  Read Information 1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. firmware version text string 2. Firmware version number 3. Last Run Time 4. Total Operation time	3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer → ECU sends in handshake: 8. Pressure altitude in meters (absolute) 9. Current flight altitude in m (zero reference is the altitude were ECU was powered up) 9. Temperature value reported by barometric sensor 1. Dair inlet temperature (inlet temperature in front of compressor). This parameter is only valid on engines which do have T0 temperature sensors mounted (e.g. P1000). In case there is no T0 sensor present a value of -100 is transferred. This parameter is available only on firmware 12.49 or higher.  RETY  Read Information  3. Luta Run Time 4. Total Operation time	1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 01023 01023 01023  RPR Read values from barometric pressure sensor 1. Barometric pressure value in mbar 2. Pressure altitude in meters (absolute) 3. Current flight altitude in m (zero reference is the altitude were ECU was powered up) 4. Maximum flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 5. Temperature value reported by barometric sensor 6. To air inlet temperature (inlet temperature in front of compressor). This parameter is only valid on engines which do have T0 temperature sensors mounted (e.g. P1000). In case there is no T0 sensor present a value of -100 is transferred. This parameter is available only on firmware 12.49 or higher.  RTY Read Information 1. Dummy parameter to initiate transfer  → ECU sends in handshake: 1. firmware version text string 2. Firmware version number 3. Last Run Time 4. Total Operation time
	RSS Read system status 1. Dummy parameter to initiate transfer → ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Fight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer → ECU sends in handshake:  RPR Read values from barometric pressure sensor Firmware 12.45 or higher required! 8. Barometric pressure value in mbar 2. Pressure altitude in meters (absolute) 3. Current flight altitude in meters (absolute) 3. Current flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 4. Maximum flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 5. Temperature value reported by barometric sensor 6. To air inlet temperature (linlet temperature in front of compressor). This parameter is only valid on engines which do have T0 temperature sensors mounted (e.g. P1000). In case there is no T0 sensor present a value of -100 is transferred. This parameter is available only on firmware 12.49 or higher.  RTY  Read Information  1. Dummy parameter to initiate transfer → ECU sends in handshake:  1. firmware version text string 2. firmware version number 3. Last Run Time 4. Total Operation time 5. Serial No	The ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8. Barometric pressure sensor 9. Barometric pressure value in mbar 1. Barometric pressure value in mbar 2. Pressure altitude in meters (absolute) 3. Current flight altitude in m (zero reference is the altitude were ECU was powered up) 4. Maximum flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 5. Temperature value reported by barometric sensor 6. To air inlet temperature (inlet temperature in front of compressor). This parameter is only valid on engines which do have T0 temperature sensors mounted (e.g. P.1000.) In case there is no T0 sensor persent a value of -100 is transferred. This parameter is available only on firmware 12.49 or higher.  RRTY  Read Information  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. firmware version text string 2. Firmware version number 3. Last Run Time 4. Total Operation time 5. Serial No	RSS Read system status  1. Dummy parameter to initiate transfer → ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Fight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer → ECU sends in handshake:  1. Dummy parameter to initiate transfer → ECU sends in handshake:  1. Dummy parameter to initiate transfer → ECU sends in handshake:  1. Barometric pressure value in mbar 2. Pressure altitude in meters (absolute) 3. Current flight altitude in meters (absolute) 4. Maximum flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 5. Temperature value reported by barometric sensor 6. To air inlet temperature (inlet temperature in front of compressor). This parameter is only valid on engines which do have T0 temperature sensors mounted (e.g. P1000). In case there is no T0 sensor present a value of -100 is transferred. This parameter is available only on firmware 12.49 or higher.  RRTY  Read Information  1. Dummy parameter to initiate transfer → ECU sends in handshake:  1. firmware version number 3. Last Run Time 4. Total Operation time 5. Serial No	3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. AD-value of Airspeed input 8. AD-Zero value of Airspeed input 9. I. Dummy parameter to initiate transfer  ⇒ ECU sends in handshake: 9. Pressure altitude in meters (absolute) 9. Current flight altitude in m (zero reference is the altitude were ECU was powered up) 9. Amaximum flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 9. Temperature value reported by barometric sensor 1. To air inlet temperature (inlet temperature in front of compressor). This parameter is only valid on engines which do have T0 temperature sensors mounted (e.g. P1000). In case there is no T0 sensor present a value of -100 is transferred. This parameter is available only on firmware 12.49 or higher.  RETY  Read Information  1. Dummy parameter to initiate transfer  ⇒ ECU sends in handshake:  1. firmware version text string 2. Firmware version number 3. Last Run Time 4. Total Operation time 5. Serial No	1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8 ECU sends in handshake:  1. Barometric pressure sensor 8. Current flight altitude in meters (absolute) 9. Temperature value reported by barometric sensor 1. Maximum flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 9. Temperature value reported by barometric sensor 6. To air inlet temperature (inlet temperature in front of compressor). This parameter is only valid on engines which do have T0 temperature sensors mounted (e.g. P1000). In case there is no T0 sor present a value of -100 is transferred. This parameter is available only on firmware 12.49 or higher.  RTY  Read Information  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. firmware version text string 2. Firmware version text string 3. Last Run Time 4. Total Operation time 5. Serial No
G	RSS  Read system status  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 7. ECU sends in handshake: 8 Barometric pressure sensor 9 L. Barometric pressure value in mbar 1. Barometric pressure value in mbar 2. Pressure altitude in meters (absolute) 3. Current flight altitude in meters (absolute) 4. Maximum flight altitude in meters (absolute) 5. Temperature value reported by barometric sensor 6. To air inlet temperature (inlet temperature in front of compressor). This parameter is only valid on engines which do have TO temperature sensors mounted (e.g. P1000). In case there is no TO sensor present a value of -100 is transferred. This parameter is available only on firmware 12.49 or higher.  RTY  Read Information  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. firmware version text string 2. Firmware version number 3. Last Run Time 4. Total Operation time	The ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8. Barometric pressure sensor 9. Barometric pressure value in mbar 1. Barometric pressure value in mbar 2. Pressure altitude in meters (absolute) 3. Current flight altitude in m (zero reference is the altitude were ECU was powered up) 4. Maximum flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 5. Temperature value reported by barometric sensor 6. To air inlet temperature (inlet temperature in front of compressor). This parameter is only valid on engines which do have T0 temperature sensors mounted (e.g. P.1000.) In case there is no T0 sensor persent a value of -100 is transferred. This parameter is available only on firmware 12.49 or higher.  RRTY  Read Information  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. firmware version text string 2. Firmware version number 3. Last Run Time 4. Total Operation time 5. Serial No	RSS Read system status  1. Dummy parameter to initiate transfer → ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Fight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer → ECU sends in handshake:  1. Dummy parameter to initiate transfer → ECU sends in handshake:  1. Dummy parameter to initiate transfer → ECU sends in handshake:  1. Barometric pressure value in mbar 2. Pressure altitude in meters (absolute) 3. Current flight altitude in meters (absolute) 4. Maximum flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 5. Temperature value reported by barometric sensor 6. To air inlet temperature (inlet temperature in front of compressor). This parameter is only valid on engines which do have T0 temperature sensors mounted (e.g. P1000). In case there is no T0 sensor present a value of -100 is transferred. This parameter is available only on firmware 12.49 or higher.  RRTY  Read Information  1. Dummy parameter to initiate transfer → ECU sends in handshake:  1. firmware version number 3. Last Run Time 4. Total Operation time 5. Serial No	3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. AD-value of Airspeed input 8. AD-Zero value of Airspeed input 9. I. Dummy parameter to initiate transfer  ⇒ ECU sends in handshake: 9. Pressure altitude in meters (absolute) 9. Current flight altitude in m (zero reference is the altitude were ECU was powered up) 9. Amaximum flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 9. Temperature value reported by barometric sensor 1. To air inlet temperature (inlet temperature in front of compressor). This parameter is only valid on engines which do have T0 temperature sensors mounted (e.g. P1000). In case there is no T0 sensor present a value of -100 is transferred. This parameter is available only on firmware 12.49 or higher.  RETY  Read Information  1. Dummy parameter to initiate transfer  ⇒ ECU sends in handshake:  1. firmware version text string 2. Firmware version number 3. Last Run Time 4. Total Operation time 5. Serial No	1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8 ECU sends in handshake:  1. Barometric pressure sensor 8. Current flight altitude in meters (absolute) 9. Temperature value reported by barometric sensor 1. Maximum flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 9. Temperature value reported by barometric sensor 6. To air inlet temperature (inlet temperature in front of compressor). This parameter is only valid on engines which do have T0 temperature sensors mounted (e.g. P1000). In case there is no T0 sor present a value of -100 is transferred. This parameter is available only on firmware 12.49 or higher.  RTY  Read Information  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. firmware version text string 2. Firmware version text string 3. Last Run Time 4. Total Operation time 5. Serial No
tiate transfer	RSS Read system status  1. Dummy parameter to initiate transfer → ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Fight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer → ECU sends in handshake:  1. Dummy parameter to initiate transfer → ECU sends in handshake:  1. Barometric pressure sensor  1. Barometric pressure value in mbar 2. Pressure altitude in meters (absolute) 3. Current flight altitude in m (zero reference is the altitude were ECU was powered up) 4. Maximum flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 5. Temperature value reported by barometric sensor 6. To air inlet temperature (linlet temperature in front of compressor). This parameter is only valid on engines which do have T0 temperature sensors mounted (e.g. P1000). In case there is no T0 sensor present a value of -100 is transferred. This parameter is available only on firmware 12.49 or higher.  RTY  Read Information  1. Dummy parameter to initiate transfer → ECU sends in handshake:  1. firmware version number 3. Last Run Time 4. Total Operation time 5. Serial No	## Decomposition of the properties of the prope	Read system status   1. Dummy parameter to initiate transfer   → ECU sends in handshake:   1. Dummy parameter (always read as 1)   2. Off-Condition   3. Actual Fight Speed   4. Proportional part of Speed regulator   5. AD-value of Airspeed input   01023   01023   01023   01023	3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8 barometric pressure 8 sensor 8	1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer ECU sends in handshake:  1. Barometric pressure sensor 8. ECU sends in handshake:  1. Barometric pressure value in mbar 2. Pressure altitude in m (zero reference is the altitude were ECU was powered up) 4. Maximum flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 5. Temperature value reported by barometric sensor 6. To air inlet temperature (inlet temperature in front of compressor). This parameter is only valid on engines which do have T0 temperature sensors mounted (e.g. P1000). In case there is no T0 sensor present a value of -100 is transferred. This parameter is available only on firmware 12.49 or higher.  RTY  Read Information  1. Dummy parameter to initiate transfer  ECU sends in handshake:  1. firmware version text string 2. Firmware version number 3. Last Run Time 4. Total Operation time 5. Serial No 6. Turbine type
	Read system status   1. Dummy parameter to initiate transfer   → ECU sends in handshake:   1. Dummy parameter (always read as 1)   2. Off-Condition   3. Actual Fight Speed   4. Proportional part of Speed regulator   5. AD-value of Airspeed input   01023   01023   01023   01023   01023	## Decu sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8 barometric pressure sensor 8	RSS Read system status  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8 ECU sends in handshake:  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Barometric pressure value in mbar 2. Pressure altitude in meters (absolute) 3. Current flight altitude in meters (absolute) 4. Maximum flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 5. Temperature value reported by barometric sensor 6. To air inlet temperature (inlet temperature in front of compressor). This parameter is only valid on engines which do have T0 temperature sensors mounted (e.g. P.1000). In case there is no T0 sensor present a value of -100 is transferred. This parameter is available only on firmware 12.49 or higher.  RETY  Read Information  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. firmware version number 3. Last Run Time 4. Total Operation number 3. Last Run Time 4. Total Operation time 5. Serial No 6. Turbine type  1. Dummy parameter to initiate transfer	3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8 EcU sends in handshake: 8 Pressure altitude in meters (absolute) 9. Current flight altitude in m (zero reference is the altitude were ECU was powered up) 9. Maximum flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 9. Temperature value reported by barometric sensor 1. To air inlet temperature (inlet temperature in front of compressor). This parameter is only valid on engines which do have T0 temperature sensors mounted (e.g. P1000). In case there is no T0 sens present a value of -100 is transferred. This parameter is available only on firmware 12.49 or higher.  RETY Read Information 1. Dummy parameter to initiate transfer  → ECU sends in handshake: 1. firmware version text string 2. Firmware version number 3. Last Run Time 4. Total Operation time 5. Serial No 6. Turbine type 1. Dummy parameter to initiate transfer  1. Dummy parameter to initiate transfer  1. Dummy parameter to initiate transfer  1. Dummy parameter of the parameter is available only on firmware 12.49 or higher.	1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 7. ECU sends in handshake: 8. Barometric pressure value in mbar 8. Current flight altitude in meters (absolute) 9. Current flight altitude in m (zero reference is the altitude were ECU was powered up) 9. Maximum flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 9. Temperature value reported by barometric sensor 1. To air inlet temperature (inlet temperature in front of compressor). This parameter is only valid on engines which do have T0 temperature sensors mounted (e.g. P1000). In case there is no T0 sensor present a value of -100 is transferred. This parameter is available only on firmware 12.49 or higher.  RTY  Read Information  1. Dummy parameter to initiate transfer 7 ECU sends in handshake:  1. firmware version number 3. Last Run Time 4. Total Operation time 5. Serial No 6. Turbine type  1. Dummy parameter to initiate transfer 1. Dummy parameter to initiate transfer 2. Firmware version number 3. Last Run Time 4. Total Operation time 5. Serial No 6. Turbine type
	RSS Read system status  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-Value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer → ECU sends in handshake:  8 PER Read values from barometric pressure sensor 8 Pirmware 12.45 or higher required! 9 PECU sends in handshake: 1. Barometric pressure value in mbar 2. Pressure altitude in meters (absolute) 3. Current flight altitude in meters (absolute) 4. Maximum flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 9. Temperature value reported by barometric sensor 6. To air inlet temperature (inlet temperature in front of compressor). This parameter is only valid on engines which ob have T0 temperature sensors mounted (e.g. P1000). In case there is no T0 sensor present a value of -100 is transferred. This parameter is available only on firmware 12.49 or higher.  RTY Read Information 1. Dummy parameter to initiate transfer → ECU sends in handshake: 1. firmware version number 3. Last Run Time 4. Total Operation time 5. Serial No 6. Turbine type  1. Dummy parameter to initiate transfer	Dummy parameter (always read as 1)   1   0.42 (see Table)   042 (see Table)   0500 km/h   042 (see Table)   0500 km/h   042 (see Table)   0500 km/h   0500 km/h   01023   0	Read system status	3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer ► ECU sends in handshake: 8. Pressure altitude in meters (absolute) 8. Current flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 9. Temperature Value reported by barometric sensor 6. To air inlet temperature (inlet temperature in front of compressor). This parameter is only valid on engines which do have T0 temperature sensors mounted (e.g. P1000). In case there is no T0 sensor present a value of -100 is transferred. This parameter is available only on firmware 12.49 or higher.  RTY  Read Information  1. Dummy parameter to initiate transfer ► ECU sends in handshake:  1. firmware version text string 2. Firmware version number 3. Last Run Time 4. Total Operation time 5. Serial No 6. Turbine type  1. Dummy parameter to initiate transfer ► ECU sends in handshake:  1. Jummy parameter of initiate transfer ► ECU sends in handshake:  1. Introduce the parameter is available only on firmware 12.49 or higher.  1. Dummy parameter to initiate transfer ► ECU sends in handshake:  1. Introduce the parameter is available only on firmware 12.49 or higher.  1. Dummy parameter to initiate transfer ► ECU sends in handshake:  1. Introduce the parameter is available only on firmware 12.49 or higher.  1. Dummy parameter to initiate transfer ► ECU sends in handshake:  1. Jummy parameter to initiate transfer ► ECU sends in handshake:	1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 7. ECU sends in handshake: 8. Barometric pressure value in mbar 8. Current flight altitude in meters (absolute) 9. Current flight altitude in meters (absolute) 9. Temperature value reported by barometric sensor 9. To air inlet temperature (inlet temperature in front of compressor). This parameter is only valid on engines which do have T0 temperature sensors mounted (e.g. P1000). In case there is no T0 sensor present a value of -100 is transferred. This parameter is available only on firmware 12.49 or higher.  RTY  Read Information  1. Dummy parameter to initiate transfer 7. ECU sends in handshake:  1. firmware version text string 2. Firmware version number 3. Last Run Time 4. Total Operation time 5. Serial No 6. Turbine type  1. Dummy parameter to initiate transfer 7. ECU sends in handshake:  1. Dummy parameter to initiate transfer 7. ECU sends in handshake:  1. Dummy parameter to initiate transfer 7. ECU sends in handshake:  1. Dummy parameter to initiate transfer 7. ECU sends in handshake:  1. Dummy parameter to initiate transfer 7. ECU sends in handshake:  1. Dummy parameter to initiate transfer 7. ECU sends in handshake:
:	RSS Read system status  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter (always read as 1)  2. Off-Condition  3. Actual Flight Speed  4. Proportional part of Speed regulator  5. AD-value of Airspeed input  6. AD-Zero value of Airspeed input  7. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Barometric pressure value in mbar  2. Pressure altitude in meters (absolute)  3. Current flight altitude in m (zero reference is the altitude were ECU was powered up)  4. Maximum flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up)  5. Temperature value reported by barometric sensor  6. To air inlet temperature (inlet temperature in front of compressor). This parameter is only valid on engines which do have T0 temperature sensors mounted (e.g. P1000). In case there is no T0 sensor present a value of -100 is transferred. This parameter is available only on firmware 12.49 or higher.  RTY  Read Information  READ Read Rpm  Information of second shaft  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter to initiate transfer  → ECU sends in handshake:	Dummy parameter (always read as 1)   1   042 (see Table)   040 (see Table)   040 (see Table)   040 (see Table)   0500 km/h   042 (see Table)   0500 km/h   01023   01	RSS Read system status  1. Dummy parameter to initiate transfer  ECU sends in handshake:  1. Dummy parameter (always read as 1)  2. Off-Condition  3. Actual Flight Speed  4. Proportional part of Speed regulator  5. AD-value of Airspeed input  6. AD-Zero value of Airspeed input  7. Dummy parameter to initiate transfer  ECU sends in handshake:  1. Dummy parameter to initiate transfer  ECU sends in handshake:  1. Barometric pressure value in mbar  2. Pressure altitude in meters (absolute)  3. Current flight altitude in m (zero reference is the altitude were ECU was powered up)  4. Maximum flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up)  5. Temperature value reported by barometric sensor  6. To air inlet temperature (inlet temperature in front of compressor). This parameter is only valid on engines which do have T0 temperature sensors mounted (e.g. P1000). In case there is no T0 sensor present a value of -100 is transferred. This parameter is available only on firmware 12.49 or higher.  RTY  Read Information  Read Rpm Information of second shaft  1. Dummy parameter to initiate transfer  ECU sends in handshake:  1. firmware version text string  2. Firmware version number  3. Last Run Time  4. Total Operation time  5. Serial No  6. Turbine type  1. Dummy parameter to initiate transfer  ECU sends in handshake:  1. Dummy parameter to initiate transfer  ECU sends in handshake:  1. firmware version text string  2. Firmware version number  3. Last Run Time  4. Total Operation time  5. Serial No  6. Turbine type	3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. AD-value of Airspeed input 8. AD-Zero value of Airspeed input 91023 01000 01000 011000	1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8. PECU sends in handshake: 9. Pressure value in mbar 1. Barometric pressure value in mbar 2. Pressure value in mbar 2. Pressure value in mbar 3. Current flight altitude in meters (absolute) 4. Maximum flight altitude in meters (absolute) 5. Temperature value reported by barometric sensor 6. To air inlet temperature (inlet temperature in front of compressor). This parameter is only valid on engines which do have T0 temperature sensors mounted (e.g. P.1000). In case there is no T0 sensor present a value of -100. ⇒ 0+100.0  1. Dummy parameter to initiate transfer  2. Perusure value reported by barometric sensor mounted (e.g. P.1000). In case there is no T0 sensor present a value of -100. ⇒ 0+100.0  3. Lurent flight altitude in meters (absolute) 6. To air inlet temperature (inlet temperature in front of compressor). This parameter is only valid on engines which do have T0 temperature sensors mounted (e.g. P.1000). In case there is no T0 sensor present a value of -100. ⇒ 0+100.0  3. Lurent flight altitude in meters (absolute)  4. Dummy parameter to initiate transfer  3. Lurent flight altitude in meters (absolute)  4. Total Operation intee 5. Serial No 6. Turbine type  1. Dummy parameter to initiate transfer  3. Lurent flight altitude in meters (absolute)  4. Total Operation time 5. Serial No 6. Turbine type  1. Dummy parameter to initiate transfer  3. Dummy parameter to initiate transfer
: 0 80000 ond shaft 0 80000	Read system status	## DECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-Value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8	RSS Read system status  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8 ensor 8 Read values from barometric pressure sensor 9 ECU sends in handshake: 9 ECU sends in handshake: 1. Dummy parameter to initiate transfer 9 ECU sends in handshake: 1. Dummy parameter to initiate transfer 9 ECU sends in handshake: 1. Dummy parameter to initiate transfer 9 ECU sends in handshake: 1. Dummy parameter to initiate transfer 9 ECU sends in handshake: 1. Serial No 8. Temperature value in mbar 1. Dummy parameter in the pressure value in mbar 2. Pressure altitude in meters (absolute) 300100 -50011000 -5001	3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. AD-value of Airspeed input 8. AD-Zero value of Airspeed input 9	1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8
: 0 80000 ond shaft 0 80000 or gearbox 0 80000	Read system status	## DECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. AD-value of Airspeed input 8. Dummy parameter to initiate transfer 8. ECU sends in handshake: 9. Barometric pressure sensor 9. Becument in the pressure value in mbar 2. Pressure altitude in meters (absolute) 9. Current flight altitude in meters (absolute) 9. Current flight altitude in recorrected by barometric sensor 9. Temperature value reported by barometric sensor 9. To dair inlet temperature (intermediate in front of compressor). This parameter is only valid on engines which do have 10 temperature sensors mounted (e.g. P1000). In case there is no 10 sensor present value of -100 is transferred. This parameter is available only on firmware 12.49 or higher.  RTY  Read Information 1. Dummy parameter to initiate transfer 2. Firmware version number 3. Last Run Time 4. Total Operation time 5. Serial No 6. Turbine type 1. Dummy parameter to initiate transfer 2. Ecu sends in handshake: 1. Set Rpm of second shaft 2. Read Rpm Information of second shaft 3. Outupt Rpm after gearbox 4. Dummy parameter to initiate transfer 2. Ecu sends in handshake: 3. Care Rapm of second shaft 4. Read Rpm Information of second shaft 5. Serial No 6. Read Rpm Information of second shaft 7. Set Rpm of second shaft 7. Set Rpm after gearbox 7. Second shaft 7. Set Rpm after gearbox 7. Second shaft 8. Serial Read Rpm Information of second shaft 8. Serial Read Rpm Information of second shaft 9. Second Shaft 9. Second Read Rpm Information of second Shaft 9. Second Read Rpm Information	Read system status	3. Actual Flight Speed   4. Proportional part of Speed regulator   5. AD-value of Airspeed input   01023   01024	1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8 earsor 8   1. Dummy parameter to initiate transfer 9 ECU sends in handshake: 9   2. Pressure altitude in meters (absolute) 1. Barometric pressure value in mbar 2. Pressure altitude in meters (absolute) 3. Current flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 4. Maximum flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 5. Temperature value reported by barometric sensor 6. To air inlet temperature (inlet temperature in front of compressor). This parameter is only valid on engines which do have T0 temperature sensor mounted (e.g. P1000). In case there is no T0 sensor present a value of -100 is transferred. This parameter is available only on firmware 12.49 or higher.  RTY  Read Information  1. Dummy parameter to initiate transfer  2. Firmware version text string 2. Firmware version text string 2. Firmware version text string 3. Last Run Time 4. Total Operation time 5. Serial No 6. Turbine type  RS1  Read Rpm Information of second shaft 1. Dummy parameter to initiate transfer  2. ECU sends in handshake:  1. Dummy parameter to initiate transfer  2. ECU sends in handshake:  1. Dummy parameter to initiate transfer  3. Last Run Time 4. Total Operation time 5. Serial No 6. Turbine type  RS1  Read Rpm Information of second shaft 1. Dummy parameter to initiate transfer  3. CULY FOR TWO SHAFT 4. ECU sends in handshake:  1. Set Rpm of second shaft 2. Real Rpm of second shaft 3. Output Rpm after gearbox 4. On. 80000 4. 80000 6. 80000 6. 80000 6. 80000 6. 80000 6. 80000 6. 80000 6. 80000 6. 80000 6. 80000 6. 80000 6. 80000 6. 80000 6. 80000 6. 80000
: 0 80000 ond shaft 0 80000 ond shaft 0 80000 ond shaft 0 80000 ond shaft ond shaft on 80000 on 8	RSS Read system status      1. Dummy parameter to initiate transfer	### Decuments of the properties of the propertie	Read system status	3. Actual Flight Speed   4. Proportional part of Speed regulator   5. AD-value of Airspeed input   01023   01025   01023   01024	1. Dummy parameter (always read as 1)   2. Off-Condition   3. Actual Flight Speed   4. Proportional part of Speed regulator   5. AD-value of Airspeed input   6. AD-Zero value of Airspeed input   7. ECU sends in handshake:   1. Barometric pressure sensor   1. Barometric pressure value in mbar   2. Pressure altitude in meters (absolute)   3. Current flight altitude in meters (absolute)   4. Maximum flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up)   5. Temperature value reported by barometric sensor   4. Maximum flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up)   5. Temperature value reported by barometric sensor   -30+60   -30+60   -30+60   -70.0+100.0   -30+6
: 0 80000 ond shaft 0 80000 ond shaft 0 80000 ond shaft 0 80000 ond shaft ond shaft on source of shaft on sh	Read system status	### Decuments of the properties of the propertie	Read system status	3. Actual Flight Speed   4. Proportional part of Speed regulator   5. AD-value of Airspeed input   01023   01025   01023   01024	1. Dummy parameter (always read as 1)   2. Off-Condition   3. Actual Flight Speed   4. Proportional part of Speed regulator   5. AD-value of Airspeed input   6. AD-Zero value of Airspeed input   7. ECU sends in handshake:   1. Barometric pressure sensor   1. Barometric pressure value in mbar   2. Pressure altitude in meters (absolute)   3. Current flight altitude in meters (absolute)   4. Maximum flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up)   5. Temperature value reported by barometric sensor   4. Maximum flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up)   5. Temperature value reported by barometric sensor   -30+60   -30+60   -30+60   -70.0+100.0   -30+6
: 0 80000 o 200 o 200 o 20	RSS Read system status  1. Dummy parameter to initiate transfer  2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. ECU sends in handshake:  1. Dummy parameter to initiate transfer  2. AD-value of Airspeed input 8. Dummy parameter to initiate transfer  3. Dummy parameter to initiate transfer  4. EU sends in handshake:  1. Barometric pressure value in mbar 2. Pressure altitude in meters (absolute) 3. Dummy parameter to initiate transfer between the province of t	## DECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 7. ECU sends in handshake: 8. Barometric pressure sensor 8. Barometric pressure value in mbar 9. Firmware 12.45 or higher required 1 9. Current flight altitude in m (zero reference is the altitude were ECU was powered up) 9. Current flight altitude in m (zero reference is the altitude were ECU was powered up) 9. Temperature value reported by barometric sensor 1. To air inlet temperature (inlet temperature in front of compressor). This parameter is only valid on engines which do have T0 temperature value of -100 is transferred. This parameter is available only on firmware 12.49 or higher.  **RTY**  **Read Information**  **Read Information**  1. Dummy parameter to initiate transfer 7 ECU sends in handshake:  1. firmware version number 3. Last Run Time 4. Total Operation time 5. Serial No 6. Turbine type  **RSI**  **Read Rpm**  Information of second shaft ONLY FOR TWO SHAFT ENGINES!  1. Set Rpm of second shaft 2. Real Rpm of second shaft 3. Output Rpm after gearbox 4. Gear Ratio Turbine to Rotor 5. Gear Ratio Tail to Rotor  4. Gear Ratio Tail to Rotor  7. Current Flight altitude in maters and the second shaft 0 80000 0 80000 0 200 0 200 0 200	RESS Read system status 1. Dummy parameter to initiate transfer → ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. ECU sends in handshake:  1. Dummy parameter to initiate transfer 7. ECU sends in handshake:  1. Barometric pressure value in mbar 2. Pressure altitude in meters (absolute) 3. Current flight altitude in meters (absolute) 4. Maximum flight altitude in meters (absolute) 5. Temperature value reported by barometric sensor 6. To ali rinlet temperature (inlet temperature in front of compressor). This parameter is only valid on engines which do have T0 temperature sensors mounted (e.g. P1000). In case there is no T0 sensor present a value of -100 is transferred. This parameter is available only on firmware 12.49 or higher.  RTY  Read Information 7. Pecu sends in handshake: 7. Infirmware version number 7. ECU sends in handshake: 7. Total Operation time 7. Serial No 7. Total Operation time 7. Serial No 7. Total Operation time 7. ECU sends in handshake: 7. ECU sends in handshake: 7. ECU sends in handshake: 8. Serial No 8. Turbine type 8. Serial No 9. Turbine type 8. Serial No 9. ECU sends in handshake: 9. EC	3. Actual Flight Speed   4. Proportional part of Speed regulator   5. AD-value of Airspeed input   01023	1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8 ECU sends in handshake: 9 Pressure altitude in meters (absolute) 1. Barometric pressure sensor 1. Barometric pressure value in mbar 2. Pressure altitude in meters (absolute) 3. Current flight altitude in m (zero reference is the altitude were ECU was powered up) 4. Maximum flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 5. Temperature value reported by barometric sensor 6. To air inlet temperature (inlet temperature in front of compressor). This parameter is only valid on engines which do have T0 temperature sensors mounted (e.g. P1000). In case there is no T0 sensor present a value of -100 is transferred. This parameter is available only on firmware 12.49 or higher.  RTY  Read Information  READ Read Rpm Information of second shaft ONLY FOR TWO SHAFT ENGINES!  1. Set Rpm of second shaft ONLY FOR TWO SHAFT ENGINES!  1. Set Rpm of second shaft ONLY FOR TWO SHAFT ENGINES!  3. Output Rpm after gearbox 4. Gear Ratio Turbine to Rotor 5. Gear Ratio Tarbine to Rotor 6. Gear Ratio Tarbine to Rotor 7. 20 20 7. 20 20 7. 20 20 7. 20 20 7. 20 20 7. 20 20 7. 20 20 7. 20 20 7. 20 20 7. 20 20 7. 20 20
: 0 80000 ond shaft ond shaft on 80000 ond shaft on 80000 on 80000 on 80000 on 80000 on 200 on 200 on 200 on 20	RSS Read system status  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional pant of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8 Firmware 12.45 or higher required 8. Current flight altitude in meters (absolute) 9. Temperature value reported by barometric sensor 9. Temperature value reported by harometric sensor 1. Dummy parameter to initiate transfer 9. Temperature value reported by barometric sensor mounted (e.g. P1000). In case there is no 170 sensor present a value of 100 is transferred. This parameter is available only on firmware 12.49 or higher.  RTY  Read Information 1. Dummy parameter to initiate transfer 9. ECU sends in handshake: 1. Infirmware version number 1. Lourny parameter to initiate transfer 9. ECU sends in handshake: 1. Infirmware version text string 2. Firmware version text string 3. Last Run Time 4. Total Operation time 5. Serial No 6. Turbine type  1. Dummy parameter to initiate transfer 9. ECU sends in handshake: 1. Set Rpm of second shaft 0.NLY FOR TWO SHAFT ENGINESI 1. Set Rpm of second shaft 0.Read Rpm information of second 1. Set Rpm of second shaft 0.Read Rpm of second shaft 0.Rea	## DECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-Jale of Airspeed input 6. AD-Zero value of Airspeed input 7. AD-Jale of Airspeed input 8. AD-Jale of Airspeed input 9. In Dummy parameter to initiate transfer 1. Dummy parameter to initiate transfer 2. Pressure altitude in meters (absolute) 3. Current flight altitude in meters (absolute) 4. Maximum flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 9. Temperature value reported by barometric sensor 6. To air inlet temperature (inlet temperature in front of compressor). This parameter is only valid on engines which do have To temperature sensors mounted (e.g. P1000). In case there is no To sensor present a value of -100 is transferred. This parameter is available only on firmware 12.49 or higher.  ### Read Information 1. Dummy parameter to initiate transfer 2. Firmware version number 3. Last Run Time 4. Total Operation time 5. Serial No 6. Turbine type  ### AD DECEMBRA SERIES SER	RESS Read system status  1. Dummy parameter to initiate transfer  2. Coff-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. ECU sends in handshake: 8. Dummy parameter to initiate transfer 8. Read values from barometric pressure sensor 8. Firmware 12.45 or higher required 9. ECU sends in handshake: 1. Barometric pressure value in mbar 2. Pressure altitude in meters (absolute) 3. Current flight altitude in meters (absolute) 4. Maximum flight altitude in meters (absolute) 5. Temperature value reported by barometric sensor 6. To air inlet temperature (inlet temperature in front of compressor). This parameter is only valid on engines which do have T0 temperature sensors mounted (e.g. P1000). In case there is no T0 sensor present a value of -100 is transferred. This parameter is available only on firmware 12.49 or higher.  RTY  Read Information 1. Dummy parameter to initiate transfer  2. Firmware version text string 2. Firmware version number 3. Last Run Time 4. Total Operation time 5. Serial No 6. Turbine type  1. Dummy parameter to initiate transfer  3. Cust of the stransfer  3. Last Run Time 4. Total Operation time 5. Serial No 6. Turbine type  1. Dummy parameter to initiate transfer  3. Cust of the stransfer  4. Total Operation time 5. Serial No 6. Turbine type  1. Dummy parameter to initiate transfer  3. Cust of the stransfer  4. ECU sends in handshake:  1. Set Rpm of second shaft 0 80000 0 80000 0 80000 0 80000 0 200	3. Actual Flight Speed   4. Proportional part of Speed regulator   5. AD-value of Airspeed input   01023   01020	1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8 Parameter 12.45 or higher required! 8 Pressure altitude in meters (absolute) 9 Parameter is only valid on engines which do have T0 temperature sensors mounted (e.g. P1000). In case there is no T0 sensor present a value of -100 +100.0  RTY  Read Information 1. Dummy parameter to initiate transfer  1. Dummy parameter is only valid on engines which do have T0 temperature sensors mounted (e.g. P1000). In case there is no T0 sensor present a value of -100 is transferred. This parameter is available only on firmware 12.49 or higher.  RTY  Read Information 1. Dummy parameter to initiate transfer  2. Firmware version text string 2. Firmware version text string 3. Last Run Time 4. Total Operation time 5. Serial No 6. Turbine type  RS1  Read Rpm Information of second shaft ONLY FOR TWO SHAFT ENGINES! 1. Set Rpm of second shaft 0. Second shaft 0. Second shaft 0. Second shaft 0. Second on the Read Total to Rotor 0. Second 0
: 0 80000 o 200 o 200 o 20	Read system status   1. Dummy parameter to initiate transfer   2. Current fight Speed   2. Off-Condition   3. Actual Flight Speed   4. Proportional part of Speed regulator   5. AD-value of Airspeed input   01023	## DECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-Jale of Airspeed input 6. AD-Zero value of Airspeed input 7. AD-Jale of Airspeed input 8. AD-Jale of Airspeed input 9. In Dummy parameter to initiate transfer 1. Dummy parameter to initiate transfer 2. Pressure altitude in meters (absolute) 3. Current flight altitude in meters (absolute) 4. Maximum flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 9. Temperature value reported by barometric sensor 6. To air inlet temperature (inlet temperature in front of compressor). This parameter is only valid on engines which do have To temperature sensors mounted (e.g. P1000). In case there is no To sensor present a value of -100 is transferred. This parameter is available only on firmware 12.49 or higher.  ### Read Information 1. Dummy parameter to initiate transfer 2. Firmware version number 3. Last Run Time 4. Total Operation time 5. Serial No 6. Turbine type  ### AD DECEMBRA SERIES SER	RESS Read system status  1. Dummy parameter to initiate transfer  2. Coff-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8 Read values from barometric pressure sensor 8 Firmware 12.45 or higher required 9. ECU sends in handshake: 1. Barometric pressure value in mbar 2. Pressure altitude in meters (absolute) 3. Current flight altitude in meters (absolute) 4. Maximum flight altitude in meters (absolute) 5. Temperature value reported by barometric sensor 6. To air inlet temperature (inlet temperature in front of compressor). This parameter is only valid on engines which do have T0 temperature sensors mounted (e.g. P1000). In case there is no T0 sensor present a value of 100 is transferred. This parameter is available only on firmware 12.49 or higher.  RTY  Read Information 1. Dummy parameter to initiate transfer  2. Firmware version text string 2. Firmware version number 3. Last Run Time 4. Total Operation time 5. Serial No 6. Turbine type  1. Dummy parameter to initiate transfer  3. Lourby permanenter in initiate transfer  3. Lourby permanenter in initiate transfer  3. Lourby permanenter in initiate transfer  3. ECU sends in handshake:  1. Firmware version text string 2. Firmware version text string 3. Last Run Time 4. Total Operation time 5. Serial No 6. Turbine type  1. Dummy parameter to initiate transfer  3. ECU sends in handshake:  1. Set Rym of second shaft ONLY FOR TWO SHAFT ENGINES!  1. Set Rym of second shaft 0 80000 0 80000 0 80000 0 80000 0 200 0 200 0 200 0 200 0 200 0 200 0 200 0 200 0 200 0 200 0 200 0 200 0 200 0 200 0 200 0 200	3. Actual Flight Speed   4. Proportional part of Speed regulator   5. AD-value of Airspeed input   01023   01020	1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8 Parameter 12.45 or higher required! 8 Pressure altitude in meters (absolute) 9 Parameter is only valid on engines which do have T0 temperature sensors mounted (e.g. P1000). In case there is no T0 sensor present a value of -100 +100.0  RTY  Read Information 1. Dummy parameter to initiate transfer  1. Timware 12.45 or higher required! 9 Pressure altitude in meters (absolute) 1. Dummy parameter is only valid on engines which do have T0 temperature sensors mounted (e.g. P1000). In case there is no T0 sensor present a value of -100 is transferred. This parameter is available only on firmware 12.49 or higher.  RTY  Read Information 1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. firmware version text string 2. Firmware version number 3. Last Run Time 4. Total Operation time 5. Serial No 6. Turbine type  RS1  Read Rpm Information of second shaft ONLY FOR TWO SHAFT ENGINES! 1. Set Rpm of second shaft ONLY FOR TWO SHAFT ENGINES! 2. Real Rpm of second shaft 3. Output Rpm after gearbox 4. Gear Ratio Turbine to Rotor 5. Gear Ratio Tail to Rotor 7. 200 7
: 0 80000 ond shaft ond shaft on 80000 ond shaft on 80000 on 80000 on 80000 on 80000 on 200 on 200 on 200 on 20	RSS Read system status  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional pant of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8 Firmware 12.45 or higher required 8. Current flight altitude in meters (absolute) 9. Temperature value reported by barometric sensor 9. Temperature value reported by harometric sensor 1. Dummy parameter to initiate transfer 9. Temperature value reported by barometric sensor mounted (e.g. P1000). In case there is no 170 sensor present a value of 100 is transferred. This parameter is available only on firmware 12.49 or higher.  RTY  Read Information 1. Dummy parameter to initiate transfer 9. ECU sends in handshake: 1. Infirmware version number 1. Lourny parameter to initiate transfer 9. ECU sends in handshake: 1. Infirmware version text string 2. Firmware version text string 3. Last Run Time 4. Total Operation time 5. Serial No 6. Turbine type  1. Dummy parameter to initiate transfer 9. ECU sends in handshake: 1. Set Rpm of second shaft 0.NLY FOR TWO SHAFT ENGINESI 1. Set Rpm of second shaft 0.Read Rpm information of second 1. Set Rpm of second shaft 0.Read Rpm of second shaft 0.Rea	## ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-Value of Airspeed input 6. AD-Zero value of Airspeed input 7. AD-Value of Airspeed input 8. AD-Zero value of Airspeed input 9. I. Dummy parameter to initiate transfer 9 ECU sends in handshake: 9 Firmware 12.45 or higher required 1 1. Barometric pressure value in mbar 1. Barometric pressure value in mbar 2. Pressure altitude in meters (absolute) 3. Current flight altitude in meters (absolute) 4. Maximum flight altitude in meters (absolute) 5. Temperature value reported by barometric sensor 6. To air inlet temperature (inlet temperature in front of compressor). This parameter is only valid on engines which do have T0 temperature sensors mounted (e.g. P1000). In case there is no T0 sensor present a value of -100 is transferred. This parameter is available only on firmware 12.49 or higher.  ###################################	RESS Read system status 1. Dummy parameter to initiate transfer   → ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. AD-Zero value of Airspeed input 8. AD-Zero value of Airspeed input 8. AD-Zero value of Airspeed input 9. AD-Zero value of Airspeed input 1. Dummy parameter to initiate transfer 7. ECU sends in handshake: 9. Pressure altitude in meters (absolute) 1. Barometric pressure value in mbar 2. Pressure altitude in meters (absolute) 3. Current fight altitude in meters (absolute) 4. Maximum flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 8. Temperature value reported by barometric sensor 9. To air inlet temperature (inlet temperature in front of compressor). This parameter is only valid on engines which do have 10 temperature sons mounted (e.g. P1000). In case there is no 10 sensor present a value of -100 9. Is transferred. This parameter is available only on firmware 12.49 or higher.  RETY  Read Information  7. Dummy parameter to initiate transfer 7. ECU sends in handshake: 9. ECU sends in handshake: 1. Infirmware version number 3. Last Run Time 4. Total Operation time 5. Serial No 6. Turbine type  1. Dummy parameter to initiate transfer 7. ECU sends in handshake: 1. Set Rpm of second shaft 2. Read Rpm 1. Dummy parameter to initiate transfer 7. ECU sends in handshake: 1. Set Rpm of second shaft 2. Read Rpm of second shaft 3. Output Rpm after gearbox 4. Gear Ratio Turbine to Rotor 5. Gear Ratio Tall to Rotor 6. Gear Ratio Turbine to Rotor 7. Gear Ratio Turbine to Rotor 7. Gear Ratio Turbine to Rotor 8. Gear Ratio Turbine to Rotor 9. Code for Baud rate	3. Actual Flight Speed   4. Proportional part of Speed regulator   5. AD-value of Airspeed input   01023   01020   01020   01020   01020   01020   01020   01023   01023   01023   01023   01023   01023   01020   01020   01020   01020   01023   01023   01023   01023   01023   01023   01023   01020   01020   01023   01023   01023   01023   01023   01023   01020   01020   01023   01023   01023   01023   01023   01020   01020   01023   01023   01023   01023   01023   01023   01023   01023   01020   01020   01023	1. Dummy parameter (always read as 1)   1   042 (see Table)   0500 km/h   042 (see Table)   0500 km/h   042 (see Table)   0500 km/h   0
: 0 80000 ond shaft ond shaft on 80000 ond shaft on 80000 on 80000 on 80000 on 80000 on 200 on 200 on 200 on 20	RSS Read system status 1. Dummy parameter to initiate transfer   → ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. AD-Zero value of Airspeed input 8. AD-Zero value of Airspeed input 91023  RPR Read values from barometric pressure sensor 1. Barometric pressure value in mbar 1. Barometric pressure value in mbar 1. Barometric pressure value in mbar 2. Pressure altitude in meters (absolute) 3. Current flight altitude in meters (absolute) 4. Maximum flight altitude in meters (absolute) 6. To air inlet temperature (inlet temperature in front of compressor). This parameter is only valid on engines which do have 10 temperature sensor mounted (e.g. P1000). In case there is no T0 sensor present a value of -100 is transferred. This parameter is available only on firmware 12.49 or higher.  RTY Read Information  READ Read Rpm Information of second shaft 2. Firmware version number 3. Last Run Time 4. Total Operation time 5. Serial No 6. Turbine type  1. Dummy parameter to initiate transfer  → ECU sends in handshake: 1. Set Rpm of second shaft 2. Read Rpm Information of second shaft 3. Output Rpm after gearbox 4. Gear Ratio Taurinine to Rotor 5. Gear Ratio Tail to Rotor  WBD Set Baud rate  Code for Baud rate  Code for Baud rate  O1023  1. Output Rpm after gearbox 080000 0200 0200	### DECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Hight Speed 4. Proportional part of Speed regulator 5. AD-Zero value of Airspeed input 6. AD-Zero value of Airspeed input 7. AD-Value of Airspeed input 8. Dummy parameter to initiate transfer 7. ECU sends in handshake: 9. ECU sends in handshake: 1. Dummy parameter to initiate transfer 7. ECU sends in handshake: 1. Barometric pressure value in mbar 2. Pressure altitude in meters (absolute) 3. Current flight altitude in meters (absolute) 4. Maximum flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 9. Temperature value reported by barometric sensor 8. To ali rinlet temperature (inlet temperature in front of compressor). This parameter is only valid on engines which do have T0 temperature sensors mounted (e.g. P1000). In case there is no T0 sensor present a value of 1.00 is transferred. This parameter is available only on firmware 12.49 or higher.  RRY  Read Information 1. Dummy parameter to initiate transfer 7. ECU sends in handshake: 1. Infirmware version number 3. Last Run Time 4. Total Operation time 5. Serial NO 6. Turbine type 1. Dummy parameter to initiate transfer 7. ECU sends in handshake: 1. Set Rpm of second shaft 2. Read Rpm Information of second shaft 3. OUNLY FOR TWO SHAFT ENGINES! 4. Set Rpm of second shaft 5. Output Rpm after gearbox 6. Que Ratio Turbine to Rotor 7. Que	RESS Read system status 1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 01023 01020 01	3. Actual Flight Speed   4. Proportional part of Speed regulator   5. AD-value of Airspeed input   6. AD-Zero value of Airspeed input   7. Deciding the parameter form barometric pressure   7. Deciding the parameter is initiate transfer   7. Deciding the parameter is person   7. Deciding the parameter is on the	1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. AD-value of Airspeed input 8. Read values from barometric pressure sensor 8. Firmware 12.45 or higher required! 9. Barometric pressure value in mbar 1. Barometric pressure value in mbar 1. Barometric pressure value in mbar 2. Pressure altitude in meters (absolute) 3. Current flight altitude in mcters (reference is the altitude were ECU was powered up) 4. Maximum flight altitude reported by barometric sensor 6. TO air inlet temperature (inlet temperature in front of compressor). This parameter is only valid on engines which do have T0 temperature sensors mounted (e.g. P1000). In case there is no T0 sensor present a value of -100 is transferred. This parameter is available only on firmware 12.49 or higher.  RTY Read Information 1. Dummy parameter to initiate transfer  ⇒ ECU sends in handshake: 1. firmware version text string 2. Firmware version number 3. Last Run Time 4. Total Operation time 5. Serial No 6. Turbine type  RS1 Read Rpm Information of second shaft ONLY FOR TWO SHAFT ENGINES! 1. Set Rpm of second shaft 2. Real Rpm of second shaft 2. Real Rpm of second shaft 3. Output Rpm after gearbox 4. Gear Ratio Turbine to Rotor 5. Gear Ratio Turbine to Rotor 5. Gear Ratio Turbine to Rotor 5. Gear Ratio Turbine to Rotor 6. Gear Ratio Turbine to Rotor 7. Gear Ratio Turbine to Rotor 8.
: 0 80000 ond shaft ond shaft on 80000 ond shaft on 80000 on 80000 on 80000 on 80000 on 200 on 200 on 200 on 20	Read system status   1. Dummy parameter to initiate transfer	### DECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Hight Speed 4. Proportional part of Speed regulator 5. AD-2arlo value of Airspeed input 6. AD-Zero value of Airspeed input 7. AD-value of Airspeed input 8. Dummy parameter to initiate transfer 8. ECU sends in handshake: 8. Dummy parameter to initiate transfer 9. ECU sends in handshake: 9. ECU sends in handshake: 1. Dummy parameter to initiate transfer 9. ECU sends in handshake: 1. Barometric pressure value in mbar 2. Pressure altitude in m (zero reference is the altitude were ECU was powered up) 8. Current flight altitude in meters (absolute) 9. Temperature value reported by barometric sensor 8. To ali rinlet temperature (inlet temperature in front of compressor). This parameter is only valid on engines which do have T0 temperature sensor mounted (e.g. P1000). In case there is no T0 sensor present a value of 100 is transferred. This parameter is available only on firmware 12.49 or higher.  RTY  Read Information 1. Dummy parameter to initiate transfer 9 ECU sends in handshake: 1. If irmware version number 3. Last Run Time 4. Total Operation time 5. Serial NO 6. Turbine type 1. Serial NO 6. Tur	RSS Read system status 1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 01023 01024 010	a. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. AD-value of Airspeed input 8. AD-value of Airspeed input 9. Loummy parameter to initiate transfer 7. ECU sends in handshake: 9. Barometric pressure value in mbar 1. Barometric pressure value in mbar 2. Pressure altitude in meters (absolute) 3. Current flight altitude in meters (absolute) 4. Maximum flight altitude in meters (absolute) 5. Temperature value reported by barometric sensor 6. To air inlet temperature (inlet temperature in front of compressor). This parameter is only valid on engines which do have T0 temperature sensors mounted (e.g. P1000). In case there is no T0 sensor present a value of -100 is transferred. This parameter is available only on firmware 12.49 or higher.  RTY  Read Information 1. Dummy parameter to initiate transfer 7. ECU sends in handshake: 1. Infirmware version text string 2. Firmware version mumber 3. Last Run Time 4. Total Operation time 5. Serial No 6. Turbine type  RS1  Read Rpm Information of second shaft ONLY FOR TWO SHAFT ENGINES! 1. Set Rpm of second shaft 1. Set Rpm of second shaft 2. Real Rpm of second shaft 3. Output Rpm after gearbox 4. Gear Ratio Turbine to Rotor 5. Gear Ratio Tail to Rotor 6. Cabo 70 and 70 on. 20 70	1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 01023 01024 01020 0102
: 0 80000 ond shaft ond shaft on 80000 ond shaft on 80000 on 80000 on 80000 on 80000 on 200 on 200 on 200 on 20	RSS Read system status      Dummy parameter to initiate transfer	## DECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-2ero value of Airspeed input 6. AD-2ero value of Airspeed input 7. Dummy parameter to initiate transfer 8	RESS Read system status 1. Dummy parameter to initiate transfer	a. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. AD-value of Airspeed input 8. AD-Zero value of Airspeed input 9. Loummy parameter to initiate transfer 9. ECU sends in handshake: 1. Barometric pressure value in mbar 2. Pressure value in mbar 2. Pressure value in mbar 2. Pressure value in mbar 3001100 -50011000 -500	1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Alrispeed input 01023 01020 010
: 0 80000 ond shaft ond shaft on 80000 ond shaft on 80000 on 80000 on 80000 on 80000 on 200 on 200 on 200 on 20	RSS Read system status      Dummy parameter to initiate transfer	Dummy parameter (always read as 1)   1   0.42 (see Table)   0500 km/h   0	RESS Read system status      1.   Dummy parameter to initiate transfer	3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. AD-value of Airspeed input 8. Dummy parameter to initiate transfer 8. ECU sends in handshake: 9. Temperature value reported by barometric sensor 1. Dummy parameter is only valid on engines which do have T0 temperature sensors 1. Dummy parameter is any valid on engines which do have T0 temperature sensors 1. Dummy parameter is any valid on engines which do have T0 temperature sensors 1. Dummy parameter is any valid on engines which do have T0 temperature sensors 1. Dummy parameter is any valid on engines which do have T0 temperature sensors 1. Dummy parameter is any valid on engines which do have T0 temperature sensors 1. Dummy parameter is any valid on engines which do have T0 temperature sensors 1. Dummy parameter is any valid on engines which do have T0 temperature sensors 1. Dummy parameter is any valid on engines which do have T0 temperature sensors 1. Dummy parameter is any valid on engines which do have T0 temperature sensors 1. Dummy parameter is any valid on engines which do have T0 temperature sensors 1. Dummy parameter is any valid on engines which do have T0 temperature (100.0	1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 01023 01020 0102
: 0 80000 ond shaft ond shaft on 80000 ond shaft on 80000 on 80000 on 80000 on 80000 on 200 on 200 on 200 on 20	RSS Read system status      Dummy parameter to initiate transfer	Dummy parameter (always read as 1)   1   0.42 (see Table)   0 500 km/h	Read system status    1.   Dummy parameter to initiate transfer   + ECU sends in handshake:   1.   Dummy parameter (always read as 1)   0.42 (see Table)   0.500 km/h   0.62 (see Table)   0.62 (see Ta	3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. AD-value of Airspeed input 8. Dummy parameter to initiate transfer 7. ECU sends in handshake: 9. ECU sends in handshake: 9. To activate system with reversion text string 9. Firmware 12.45 or higher required! 9. Temperature value reported by barometric sensor 1. Barometric pressure value in mbar 2. Pressure altitude in meters (absolute) 3. Current flight altitude in meters (absolute) 9. Temperature value reported by barometric sensor 1. To air inlet temperature (inlet temperature in front of compressor). This parameter is only valid on engines which do have 70 temperature sensors mounted (e.g. P1000). In case there is no 70 sensor present a value of -100 is transferred. This parameter is available only on firmware 12.49 or higher.  RTY  Read Information  1. Dummy parameter to initiate transfer 7 ECU sends in handshake: 9. ECU sends in handshake: 1. firmware version text string 2. Firmware version number 3. Last Run Time 4. Total Operation time 5. Serial No 6. Turbine type  1. Dummy parameter to initiate transfer 7 ECU sends in handshake: 9. ECU sends in handshake: 1. Gear Ratio Turbine to Rotor 5. Serial No 6. Turbine type  1. Dummy parameter to initiate transfer 9. ECU sends in handshake: 1. Gear Ratio Turbine to Rotor 1. Serial No 1. Dummy parameter to initiate transfer 9. ECU sends in handshake: 1. Set Rpm of second shaft 1. Set Rpm of second shaft 2. Real Rpm of second shaft 2. Real Rpm of second shaft 3. Output Rpm after gearbox 4. Gear Ratio Turbine to Rotor 5. Gear Ratio Turbine to Rotor 5. Gear Ratio Turbine to Rotor 7. Gear Ratio Turbine to Rotor 7. Gear Ratio Turbine to Rotor 8. Gear Ratio Turbine to Rotor 9. ECU sends in handshake: 9	1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Alrispeed input 01023 01020 010
: 0 80000 ond shaft ond shaft on 80000 ond shaft on 80000 on 80000 on 80000 on 80000 on 200 on 200 on 200 on 20	RSS Read system status      Dummy parameter to initiate transfer	→ ECU sends in handshake:   1. Dummy parameter (always read as 1)   2. Off-Condition   3. Actual Flight Speed   4. Proportional part of Speed regulator   5. AD-value of Airspeed input   01023   001100   00100   00100   00100   00100   00100   00100   00100   00100   01000   0.	Read system status  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. AD-value of Airspeed input 8. AD-value of Airspeed input 9. AD-value of Airspeed input 1. Dummy parameter to initiate transfer 9. ECU sends in handshake: 9. Barometric pressure sensor 1. Barometric pressure value in mbar 2. Pressure altitude in meters (absolute) 3. Current flight altitude even ECU was powered up) 4. Maximum flight altitude in m (zero reference is the altitude were ECU was powered up) 5. Temperature value reported by barometric sensor 6. To air inel temperature (fliel temperature in front of compressor). This parameter is only valid on engines which do have TO temperature sensors mounted (e.g. P1000). in case there is not To sensor present a value of 1-100 is transferred. This parameter is available only on firmware 12.49 or higher.  RRTY  Read Information  2. Pressure altitude in micro in the sensor in t	a. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Alrispeed input 6. AD-Zero value of Alrispeed input 7. Dummy parameter to initiate transfer 7. ECU sends in handshake: 8. Temperature (2.45 or higher required) 8. Barometric pressure value in mbar 9. Pressure altitude in meters (absolute) 9. Temperature (absolute) 9. Temperature (absolute) 9. Temperature value reported by barometric sensor 9. To ali rinlet temperature (inlet temperature in front of compressor). This parameter is only valid on engines which do have T0 temperature sensors mounted (e.g. P1000). In case there is no T0 sensor present a value of -100 9. Total Operation time 9. ECU sends in handshake: 9. ECU sends in handshake: 1. Dummy parameter to initiate transfer 9. ECU sends in handshake: 1. Serial NO 1. Dummy parameter to initiate transfer 9. ECU sends in handshake: 1. Serial NO 1. Total Operation time 1. Serial NO 1. Total Operation time 1. Set Rpm of second shaft 2. Real Rpm information of second shaft 3. Output Rpm after gearbox 4. Gear Ratio Turbine to Rotor 5. Gear Ratio Talt to Rotor 9. ECU sends in handshake: 1. Set Rpm of second shaft 2. Real Rpm of second shaft 3. Output Rpm after gearbox 4. Gear Ratio Turbine to Rotor 5. Gear Ratio Talt to Rotor 9. ECU sends in handshake: 1. Set Rpm of second shaft 2. Real Rpm of second shaft 3. Output Rpm after gearbox 4. Gear Ratio Turbine to Rotor 5. Gear Ratio Talt to Rotor 9. ECU sends in handshake: 1. Set Rpm of second shaft 2. Real Rpm of second shaft 3. Output Rpm after gearbox 4. Gear Ratio Turbine to Rotor 5. Gear Ratio Talt to Rotor 9. ECU sends in Parameter 4&5 only available on software version V6.00U or higher 1. Jummy parameter 4. Sonly available on software version V6.00U or higher 1. Jummy parameter 4. Sonly available on software version V6.00U or higher 1. Jumpy parameter 5. Sak4 1. Set Rpm of second shaft 3. Output Rpm after gearbox 4. Gear Ratio Turbine to Rotor 5. Gear Ratio Talt Rotor 6. Subscience 1. Sake	1. Dummy parameter (always read as 1)   2. Off-Condition   3. Actual Flight Speed   4. Proportional part of Speed regulator   5. DA-value of Airspeed input
: 0 80000 ond shaft ond shaft on 80000 ond shaft on 80000 on 80000 on 80000 on 80000 on 200 on 200 on 200 on 20	RSS Read system status      Dummy parameter to initiate transfer	## Decoused in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. AD-value of Airspeed input 8. AD-zero value of Airspeed input 8. AD-zero value of Airspeed input 9. Lournay parameter to initiate transfer 9. Current flight altitude in meters (absolute) 9. Current flight altitude in meters (absolute) 1. Dummy parameter in m (zero reference is the altitude were ECU was powered up) 1. Temperature value reported by barometric sensor 6. To air inlet temperature (inlet temperature in front of compressor). This parameter is only valid on engines which do have T0 temperature sensors mounted (e.g. P1000). In case there is no T0 sensor present a value of ·100. Is transferred. This parameter is only valid on engines which do have T0 temperature sensors mounted (e.g. P1000). In case there is no T0 sensor present a value of ·100. Is transferred. This parameter is only valid on engines which do have T0 temperature sensors mounted (e.g. P1000). In case there is no T0 sensor present a value of ·100. Is transferred. This parameter is only valid on engines which do have T0 temperature sensors mounted (e.g. P1000). In case there is no T0 sensor present a value of ·100. Is transferred. This parameter is only valid on engines which do have T0 temperature sensors mounted (e.g. P1000). In case there is no T0 sensor present a value of ·100. —70.0 +100.0  ### ECU sends in handshake:  1. Set Rpm of second shaft ONLY FOR TWO SHAFT ENGINESI  **DOUTED Set Rpm of second shaft ONLY FOR TWO SHAFT ENGINESI  **DOUTED Series Read Rpm of second shaft ONLY FOR TWO SHAFT ENGINESI  **DOUTED Series Read Rpm of second shaft ONLY FOR TWO SHAFT ENGINESI  **DOUTED Series Read Rpm of second shaft ONLY FOR TWO SHAFT ENGINESI  **DOUTED SERIES Read Rpm of second shaft ONLY FOR TWO SHAFT ENGINESI  **DOUTED SERIES Read Rpm of second shaft ONLY FOR TWO SHAFT ONLY Rpm after gestox ONLY FOR TWO SHAFT ENGINES Read R	RESS Read system status   1. Dummy parameter to initiate transfer   2	3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. AD-value of Airspeed input 8. Dummy parameter to initiate transfer 7. ECU sends in handshake: 9. ECU sends in handshake: 9. Teressure altitude in meters (absolute) 9. Teressure altitude in meters (absolute) 9. Teressure altitude in meters (absolute) 9. Teresperature value reported by barometric sensor 1. Barometric pressure value in mbar 2. Pressure altitude in meters (absolute) 9. Temperature value reported by barometric sensor 1. To activate system with meters (absolute) 9. Temperature value reported by barometric sensor 1. To activate system with meters in meters (absolute) 9. Temperature value reported by barometric sensor 1. To activate system with meters in meters in available only on firmware 12.49 or higher.  1. Dummy parameter to initiate transfer 2. FeCU sends in handshake: 3. Last Run Time 4. Total Operation time 5. Serial NO 6. Turbine type  1. Dummy parameter to initiate transfer 2. Read Rpm information of second shaft 1. Set Rpm of second shaft 2. Real Rpm of second shaft 3. Output Rpm after gearbox 4. Gear Ratio Turbine to Rotor 5. Gear Ratio Tail to Rotor 9. Cado with new Baud rate 7. Cactivate system with new Baud rate 7. To activate system with new Baud rate 7. To activate system with new Baud rate 7. To activate system with new Baud rate 7. Set Baud rate 7. Cado with set and rate 8. Set Baud rate 7. To activate system with new Baud rate 7. Set Rpm of second shaft 8. Set Baud rate 7. Cado with set and rate 8. Set Rpm of second shaft 9. Set Baud rate 1. Set Rpm of second shaft 1. Set Rpm of sec	1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Fight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8. ECU sends in handshake: 8. ECU sends in handshake: 9. ECU sends in handshake: 9. Temperature value reported by barometric sensor 1. Barometric pressure dult in meters (absolute) 3. Current flight altitude in meters (absolute) 4. Maximum flight altitude in meters (absolute) 5. Temperature value reported by barometric sensor 6. To air inlet temperature (inlet temperature in front of compressor). This parameter is only valid on engines which do have T0 temperature sensors mounted (e.g. P1000). In case there is no T0 sensor present a value of 100 is transferred. This parameter is available only on firmware 12.49 or higher.  RTY  Read Information 1. Dummy parameter to initiate transfer 2. Firmware version number 3. Last Run Time 4. Total Operation time 5. Serial No 6. Turbine type 1. Dummy parameter to initiate transfer 2. Firmware version number 3. Last Run Time 4. Total Operation time 5. Serial No 6. Turbine type 1. Dummy parameter to initiate transfer 2. Read Rpm Information of second shaft ONLY FOR TWO SHAFT ENGINESI 1. Set Rpm of second shaft 0. Round 0. Ro
: ond shaft	RESS Read system status  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer → ECU sends in handshake:  1. Barometric pressure value in mbar 2. Pressure altitude in meters (absolute) 3. Current flight altitude in meters (absolute) 4. Maximum flight altitude in meters (absolute) 5. Temperature value reported by barometric sensor 6. To air inlet temperature (inlet temperature in front of compressor). This parameter is only valid on engines which do have 10 temperature sensors mounted (e.g. P1000). In case there is no T0 sensor present a value of -100 is transferred. This parameter is available only on firmware 12.49 or higher.  RTY  Read Information  1. Dummy parameter to initiate transfer → ECU sends in handshake:  1. firmware version number 3. Last Run Time 4. Total Operation time 5. Serial No 6. Turbine type 1. Serial No 6. Turbine type 1. Serial Read Rpm Information of second shaft ONLY FOR TWO SHAFT ENGINES!  2. Read Rpm of second shaft 2. Read Rpm of second shaft 3. Output Rpm after gearbox 4. Gear Ratio Turbine to Rotor 5. Gear Ratio Turbine to Rotor 6. Read Ratio Turbine to Rotor 7. Serial No 6. Turbine type 7. Serial No 6. Turbine type 8. Serial No 6. Turbine type 8. Serial No 6. Turbine type 8. Serial No 7.	### Dummy parameter (always read as 1)  2. Off-Condition  3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. AD-Zero value of Airspeed input 8. AD-Zero value of Airspeed input 8. AD-Zero value of Airspeed input 9. I. Dummy parameter to initiate transfer 9 ECU sends in handshake: 1. Barometric pressure sensor 8. Barometric pressure value in mhar 2. Pressure altitude in mer (sensor thing the transfer) 9 ECU sends in handshake: 1. Barometric pressure value in mhar 2. Pressure altitude in mer (sensor the altitude were ECU was powered up) 9. Temperature value reported by barometric sensor 1. Barometric pressure value in mhar 1. Pressure value reported by barometric sensor 1. To air intel temperature (linet temperature in front of compressor). This parameter is only valid on engines which do have T0 temperature sensors mounted (e.g. P1000). In case three is no T0 sensor present a value of 1.00 is transferred. This parameter is available only on firmware 12.49 or higher.  **RTY**  **Read Information**  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. firmware version text string 2. Firmware version number 3. Last Run Time 4. Total Operation time 5. Serial No 6. Turbine type  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Set Rpm of second shaft 0 80000 0	Read system status  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 0 500 km/h 6. AD-Zero value of Airspeed input 0 1023 0 1020	a. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 6. AD-Zero value of Airspeed input 7. AD-Zero value of Airspeed input 8. AD-Zero value of Airspeed input 8. AD-Zero value of Airspeed input 9. Carbon Speed input 9. Carbon Speed input 1. Dummy parameter to initiate transfer 9. EUL sends in handshake: 9. Carbon High altitude in meters (absolute) 9. Carbon High altitude in meters (absolute) 9. Carbon High altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 9. Temperature value reported by barometric sensor 10. To air inlet temperature infront of compressor). This parameter is only valid on engines which do have T0 temperature sensors mounted (e.g. P1000). In case there is no T0 sensor present a value of -100. is transferred. This parameter is analy valid on engines which do have T0 temperature sensors mounted (e.g. P1000). In case there is no T0 sensor present a value of -100. is transferred. This parameter is analy valid on engines which do have T0 temperature sensors mounted (e.g. P1000). In case there is no T0 sensor present a value of -100. is transferred. This parameter is analy valid on engines which do have T0 temperature sensors mounted (e.g. P1000). In case there is no T0 sensor present a value of -100. is transferred. This parameter is only valid on engines which do have T0 temperature sensors mounted (e.g. P1000). In case there is no T0 sensor present a value of -100 ±100.0 minute to T000 ±1000.0 minute to T000.0 minute	1. Dummy parameter (always read as 1)   2. Off-Condition   3. Actual Fight Speed   4. Proportional part of Speed regulator   5. AD-value of Airspeed input   5. AD-zero value of Airspeed input
:  Ind shaft Ind	RESS Read system status  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-actic of Airspeed input 6. AD-Zero value of Airspeed input 7. AD-Zero value of Airspeed input 8. AD-Zero value of Airspeed input 8. AD-Zero value of Airspeed input 8. AD-Zero value of Airspeed input 9. Loummy parameter to initiate transfer  → ECU sends in handshake:  2. Pressure altitude in meters (absolute) 3. Current flight altitude are eached since ECU power up (zero reference is the altitude were ECU was powered up) 9. Temperature value reported by beametric sensor 8. To al' intel temperature (infet temperature in front of compressor). This parameter is only valid on engines which do have 10 temperature sensors mounted (e.g. *P1000). In case there is no To sensor present a value of -100 is transferred. This parameter is available only on firmware 12.49 or higher.  RTY  Read Information  RTY  Read Rpm Information of second shaft 0. Loumny parameter to initiate transfer  → ECU sends in handshake:  1. firmware version text string 2. Firmware version mumber 3. Last Run Time 4. Total Operation time 5. Serial No 6. Turbine type  2. Read Rpm of second shaft 0. Boodo 0	## ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. AD-Zero value of Airspeed input 8. AD-Zero value of Airspeed input 8. AD-Zero value of Airspeed input 9. Loumny parameter to initiate transfer  ### ECU sends in handshake: 1. Barometric pressure value in mbar 1. Barometric pressure value in mbar 2. Pressure altitude in meters (absolute) 3. Current flight altitude in meters (absolute) 3. Current flight altitude in meters (absolute) 4. Maximum flight altitude in meters (absolute) 5. Temperature value reported by barometric sensor 6. To air inlet temperature (inlet temperature in front of compressor). This parameter is only valid on engines which do have 10 temperature sensors mounted (e.g. PL000). In case there is no 10 sensor present a value of -100 is transfererd. This parameter is available only on firmware 12.49 or higher.  #### Read Information  1. Dummy parameter to initiate transfer  #### ECU sends in handshake:  1. In firmware version text string 2. Firmware version number 3. Last Run Time 4. Total Operation time 5. Serial No. 6. Turbine type  #### ECU sends in handshake:  1. Set Rpm of second shaft 0. May For TWO SHAFT ENGINESI  #### Actual Plans	1.	a. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-Value of Airspeed input 6. AD-Zero value of Airspeed input 7. AD-Value of Airspeed input 8. AD-Value of Airspeed input 8. AD-Value of Airspeed input 9. AD-Zero value of Airspeed input 1. Dummy parameter to initiate transfer 1. Barometric pressure value in mbar 2. Pressure value in mbar 3. Current flight altitude in m (zero reference is the altitude were ECU was powered up) 9. Maximum flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 9. Temperature value reported by barometric sensor 6. To air inlet temperature (inlet temperature in front of compressor). This parameter is only valid on engines which do have T0 temperature sensors mounted (e.g. P1000). In case there is no T0 sensor present a value of -100. 9. Temperature value repentater is any value in mbar 9. Temperature value repented by barometric sensor 6. To air inlet temperature (inlet temperature in front of compressor). This parameter is only valid on engines which do have T0 temperature sensors mounted (e.g. P1000). In case there is no T0 sensor present a value of -100. 9. Temperature value repentative in front of compressor). This parameter is only valid on engines which do have T0 temperature sensors mounted (e.g. P1000). In case there is no T0 sensor present a value of -100. 9. Temperature value repentative value repentative in front of compressor). This parameter is only valid on engines which do have T0 temperature sensors mounted (e.g. P1000). In case there is no T0 sensor present a value of -100. 9. Temperature value repentative in financial in the financial	1. Dummy parameter (always read as 1)   2. Off-Condition   3. Actual Flight Speed   4. Proportional part of Speed regulator   5. DA-Value of Airspeed input   01023   0102
:  Ind shaft Ind	RESS Read system status  1. Dummy parameter to initiate transfer  2. COff-Condition  3. Actual Fights Speed  4. Proportional part of Speed regulator  5. AD-value of Airspeed input  6. AD-Zero value of Airspeed input  7. Dummy parameter to initiate transfer  2. ECU sends in handshake:  8 Read values from barometric pressure sensor  8 Firmware 12.45 or higher required!  1. Barometric pressure value in mbar  2. Pressure altitude in meters (absolute)  3. Current flight altitude in meters (absolute)  4. Maximum flight altitude in recero reference is the altitude were ECU was powered up)  5. Temperature value reported by barometric sensor  6. To air inlet temperature (inlet temperature in front of compressor). This parameter is only valid on engines which do have 10 temperature sensors mounted (e.g., P1000). In case there is no T0 sensor present a value of -100 is transferred. This parameter is available only on firmware 12.49 or higher.  RTY  Read Information  1. Dummy parameter to initiate transfer  2. ECU sends in handshake:  1. Infirmware version number  3. Last Run Time  4. Total Operation time  5. Serial No.  6. Turbine type  1. See Rad Rpm information of second shaft  ONLY FOR TWO SHAFT  ENGINES!  1. See Rpm of second shaft  2. Read Rpm after gearbox  4. Gear Ratio Turbine to Rotor  5. Gear Ratio Tail to Rotor  7. Caclivate system with new Baud rate with rew Baud rate with required!  8. ECU sends in handshake:  9. ECU sends in handshake:  1. See Rpm of second shaft  2. Read Rpm of second shaft  3. Output Rpm after gearbox  4. Gear Ratio Turbine to Rotor  5. Gear Ratio Turbine to Rotor  6. To activate system with new Baud rate with rew Baud rate with rewell remains rewell remains required!  8. EUS Reference in the Reference remains	### Dummy parameter (always read as 1)  2. Off-Condition  3. Actual Flight Speed  4. Proportional part of Speed regulator  5. AD-value of Airspeed input  6. AD-Zero value of Airspeed input  7. AD-value of Airspeed input  8. AD-value of Airspeed input  8. AD-value of Airspeed input  8. AD-value of Airspeed input  9. Dummy parameter to initiate transfer  ###################################	Read system status	a. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-Value of Airspeed input 6. AD-Zero value of Airspeed input 7. AD-Zero value of Airspeed input 8. AD-Zero value of Airspeed input 8. AD-Zero value of Airspeed input 9. Carbon Speed input 9. Carbo	1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Fights Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 5 ECU sends in handshake: 9 ECU sends in handshake: 1. Barometric pressure value in mbar 2. Pressure altitude in meters (absolute) 3. Current flight altitude in meters (absolute) 4. Maximum flight altitude in meters (absolute) 5. Temperature value reported by barometric sensor 6. To air inlet temperature (inlet temperature in front of compressor). This parameter is only valid on engines which do have 10 temperature sensor mounted (e.g. P1000). In case there is no T0 sensor present a value of -100 is transferred. This parameter is available only on firmware 12.49 or higher.  RTY Read Information 1. Dummy parameter to initiate transfer 7 ECU sends in handshake: 1. firmware version text string 2. Firmware version number 3. Last Run Time 4. Total Operation time 5. Serial No 6. Turbine type 1. Serial No 6. Turbine type 2. Eleand shake: 3. Output Rynn after gearbox 0. 80000 0. 80000 0. 80000 0. 80000 0. 80000 0. 200 0.
:  Ind shaft Ind show shaft Ind shaft Ind show shaft Ind show shaft Ind shaft Ind shaft Ind show show show show show show show shaft Ind shaf	Read system status   1. Dummy parameter to initiate transfer	## ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-zero value of Airspeed input 7. AD-value of Airspeed input 8. AD-value of Airspeed input 8. AD-value of Airspeed input 9. 1. Dummy parameter to initiate transfer  ### ECU sends in handshake:  1. Barometric pressure sensor 1. Barometric pressure value in mbar 2. Pressure altitude in mer (sero reference is the altitude were ECU was powered up) 4. Maximum flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 5. Temperature value reported by barometric sensor 6. To al in lett emperature (line! temperature in front of compressor). This parameter is only valid on engines which do have T0 temperature sensors mounted (e.g. P1000). In case there is no T0 sensor present a value of -100  is transferred. This parameter is available only on firmware 12.49 or higher.  ***TY**  **Read Information**  **Read Information**  1. Dummy parameter to initiate transfer  ### ECU sends in handshake:  1. If irmware version text string 2. Firmware version number 3. Last Run Time 4. Total Operation time 5. Serial No 6. Turbine type  1. Dummy parameter to initiate transfer  ### ECU sends in handshake:  1. Set Rpm of second shaft 0 80000 0 80000 0 80000 0 80000 0 80000 0 80000 0 200 0	1   1   2   2   3   3   3   3   3   3   3   3	a. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. AD-Value of Airspeed input 8. AD-Value of Airspeed input 8. AD-Value of Airspeed input 9. AD-Zero value of Airspeed input 9. AD-Zero value of Airspeed input 9. AD-Zero value of Airspeed input 1. Dummy parameter to initiate transfer 1. Barometric pressure value in mbar 2. Pressure value in mbar 3. Current flight altitude in meters (absolute) 3. Current flight altitude in meters (absolute) 3. Current flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 8. Temperature value reported by barometric sensor 6. To air inlet temperature (inlet temperature in front of compressor). This parameter is only valid on engines which do have T0 temperature sensors mounted (e.g. P1000). In case there is no T0 sensor present a value of -100. 9. Temperature value repentater is any value in mbar 9. ECU sends in handshake: 1. Dummy parameter to initiate transfer 9. ECU sends in handshake: 1. Jummy parameter to initiate transfer 9. ECU sends in handshake: 1. Sermware version number 3. Last Run Time 4. Total Operation time 5. Serial No 6. Turbine type 1. Dummy parameter to initiate transfer 9. ECU sends in handshake: 1. Set Rpm of second shaft 0. R0000 0	1. Dummy parameter (always read as 1)   2. Off-Condition   3. Actual Flights Speed   4. Proportional part of Speed regulator   5. AD-value of Airspeed input   0. 1023   0.
:  Ind shaft Ind show shaft Ind shaft Ind show shaft Ind show shaft Ind shaft Ind shaft Ind show show show show show show show shaft Ind shaf	Read system status   1. Dummy parameter to initiate transfer	## ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-zero value of Airspeed input 7. AD-value of Airspeed input 8. AD-value of Airspeed input 8. AD-value of Airspeed input 9. Condition 1. Dummy parameter to initiate transfer 9. ECU sends in handshake: 9. ECU sends in handshake: 1. Barometric pressure sensor 1. Barometric pressure value in mbar 2. Pressure altitude in mr (zero reference is the altitude were ECU was powered up) 4. Maximum flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 5. Temperature value reported by barometric sensor 6. To air intel temperature (inelt temperature (inelt temperature in front of compressor). This parameter is only valid on engines which do have 10 temperature sensors mounted (e.g. P21000). In case there is no 10 sensor present a value of -100 is transferred. This parameter is available only on firmware 12.49 or higher.  RTY  Read Information  ### COUNT ON TWO SHAFT   Infirmware version text string 2. Firmware version number 3. Last Run Time 4. Total Operation time 5. Serial Vo 6. Turbine type 1. Set Baud rate 7. Set Baud rate 8. Set Baud rate 7. Set Baud rate 8. Set Baud rate 7. Set Baud rate 8. Set Baud rate 8. Set Baud rate 9. Set Baud rate 9. Set Baud rate 1. Set Rym of second shaft 2. Reaf Rym of second shaft 3. Golyput Rym after geathox 4. Gear Ratio Turbine to Rotor 9. Set Baud rate 1. Set Rym of second shaft 2. Reaf Rym of second shaft 3. Set Baud rate 7. Set Baud rate 8. Set Baud rate 9. Set Baud rate 9. Set Baud rate 9. Set Baud rate 9. Set Baud rate 1. Set Rym of second shaft 1. Set Rym of second shaft 2. Set Baud rate 9. Set Baud rate 1. Set Rym of second shaft 1. Set Rym o	Read system status    Dummy parameter to initiate transfer	a. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-zero value of Airspeed input 7. AD-value of Airspeed input 8. AD-value of Airspeed input 8. AD-value of Airspeed input 9. Colora value value in mbar 9. Firmware 12.45 or higher required! 9. Current flight altitude in meters (absolute) 9. Current flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 9. Temperature value reported by barometric sensor 9. To ali nile temperature spowered up) 9. Temperature value reported by barometric sensor 9. To ali nile temperature (linlet temperature in front of compressor). This parameter is nily valid on engines which do have T0 temperature sensors mounted (e.g., P1000). In case there is not 3 sensor present a value of 1.00 is transferred. This parameter is available only on firmware 12.49 or higher.  RRY  Read Information  1. Dummy parameter to initiate transfer  2. Firmware version number 3. Last Run Time 4. Total Operation time 5. Serial No 9. Colora value reported by barometric sensor 1. Immware version number 3. Last Run Time 4. Total Operation time 5. Serial No 9. Colora of the second shaft 9. Colora for the second shaft	1. Dummy parameter (always read as 1)   2. Off-Condition   3. Actual Fights Speed   4. Proportional part of Speed regulator   5. AD-value of Airspeed input   01023   01024   0102
:  Ind shaft Ind show shaft Ind shaft Ind show shaft Ind show shaft Ind shaft Ind shaft Ind show show show show show show show shaft Ind shaf	Read system status   1. Dummy parameter to initiate transfer	Decomposition   Decompositio	Read system status    Dummy parameter (always read as 1)   1   0.42 (see Table)   0.500 km/h   0.40 (see Table)   0.500 km/h   0.	3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-zero value of Airspeed input 7. AD-value of Airspeed input 8. AD-value of Airspeed input 9. 0.1023 1. Dummy parameter to initiate transfer 2. EU sends in handshake: 8. Dummy parameter to initiate transfer 2. Pressure value in mbar 8. Current flight altitude in m (zero reference is the altitude were ECU was powered up) 9. Temperature value reported by barometric sensor 8. To al' rintel temperature (inlet temperature infort of compressor). This parameter is only valid on engines which do have 70 temperature sensors mounted (e.g. P1000). In case there is no 10 sensor present avalue of -100 is transferred. This parameter is available only on firmware 12.49 or higher.  RRTY  Read Information  Read Information  Read Rpm Information of second shaft ONLY FOR TWO SHAFT ENGINES!  Read Rpm Information of second shaft ONLY FOR TWO SHAFT ENGINES!  1. Set Rpm of second shaft ONLY FOR TWO SHAFT ENGINES!  2. Real Rpm of second shaft 3. Qualut Rpm after gearbox 4. Gear Ratio Turbine to Rotor 5. Gear Ratio Turbine to Rotor 6. See Ratio Tatle Notor 7. See Ratio Tatle Notor 8. See Ratio Tatle Notor 9. See Ratio Tatle Notor	1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-2are value of Airspeed input 6. AD-2are value of Airspeed input 7. AD-2are value of Airspeed input 8. AD-2are value of Airspeed input 9. Loummy parameter to initiate transfer 9 ECU sends in handshake: 1. Barometric pressure sensor 1. Barometric pressure value in mbar 2. Pressure altitude in meters (absolute) 3. Current flight altitude in meters (absolute) 4. Maximum flight altitude in meters (absolute) 5. Temperature value reported by barometric sensor 6. To air inlet temperature (inlet temperature in front of compressor). This parameter is only valid on engines which do have 10 temperature sensors mounted (e.g. P1000). In case there is no T0 sensor present a value of -100 is transferred. This parameter is available only on firmware 12.49 or higher.  RTY  Read Information  1. Dummy parameter to initiate transfer 9 ECU sends in handshake:  1. firmware version text string 2. Firmware version number 3. Last Run Time 4. Total Operation time 5. Serial No 6. Turbine type 1. Dummy parameter to initiate transfer 9 ECU sends in handshake: 1. firmware version text string 2. Firmware version text string 3. Last Run Time 4. Total Operation time 5. Serial No 6. Turbine type 1. Dummy parameter to initiate transfer 9 ECU sends in handshake: 1. Serial No 6. Turbine type 1. Dummy parameter to initiate transfer 9 ECU sends in handshake: 1. Serial No 6. Turbine type 1. Dummy parameter to initiate transfer 9 ECU sends in handshake: 1. Serial No 6. Turbine type 1. 2. Real Rpm of second shaft 2. Real Rpm of second shaft 3. Output Rpm after gearbo 4. Gener Ratio Turbine to Rotor 5. Gear Ratio Tail to Rotor 5. Gear Ratio Tail to Rotor 6. Sepandia da tored automatically/instant, 6. SRA4 7. STA6 8. SRA5 8. SRA
	RSS Read system status  1. Dummy parameter to initiate transfer → ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. ECU sends in handshake:  1. Dummy parameter to initiate transfer → ECU sends in handshake:  1. Dummy parameter to initiate transfer → ECU sends in handshake:  1. Barometric pressure value in mbar 2. Pressure altitude in meters (absolute) 3. Current flight altitude in m (zero reference is the altitude were ECU was powered up) 4. Maximum flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 5. Temperature value reported by barometric sensor 6. T0 air inlet temperature (inlet temperature in front of compressor). This parameter is only valid on engines which do have T0 temperature sensors parameter is only valid on engines which do have T0 temperature sensors parameter is only valid on engines which do have T0 temperature sensors parameter is only valid on engines which do have T0 temperature sensors parameter is only valid on engines which do have T0 temperature sensors parameter is only valid on engines which do have T0 temperature sensors parameter is only valid on engines which do have T0 temperature sensors parameter is only valid on engines which do have T0 temperature sensors parameter is only valid on engines which do have T0 temperature sensors parameter is only valid on engines which do have T0 temperature sensors parameter is only valid on engines which do have T0 temperature sensors parameter is only valid on engines which do have T0 temperature sensors parameter is only valid on engines which do have T0 temperature sensors parameter is only valid on engines which do have T0 temperature sensors parameter is only valid on engines which do have T0 temperature sensors parameter is only valid on engines which do have T0 temperature sensors parameter is only valid on engines which do have T	The properties of the parameter of the	RSS Read system status  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 7. → ECU sends in handshake:  RPR Read values from barometric pressure sensor 1. Barometric pressure value in mbar 2. Pressure altitude in meters (absolute) 3. Current flight altitude in m (zero reference is the altitude were ECU was powered up) 4. Maximum flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 5. Temperature value reported by barometric sensor 6. To air inlet temperature (inlet temperature in front of compressor). This parameter is only valid on engines which do have T0 temperature sensors mounted (e.g. P1000). In case there is no T0 sensor present a value of -100 is transferred. This parameter is available only on firmware 12.49 or higher.  RTY Read Information 1. Dummy parameter to initiate transfer → ECU sends in handshake: 1. firmware version text string 2. Firmware version number 3. Last Run Time	3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8 barometric pressure sensor 8 1. Barometric pressure value in mbar 9 ECU sends in handshake: 9 1. Barometric pressure value in mbar 1. Barometric pressure value in mbar 2. Pressure altitude in meters (absolute) 3. Current flight altitude in m (zero reference is the altitude were ECU was powered up) 4. Maximum flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 5. Temperature value reported by barometric sensor 6. To air inlet temperature (inlet temperature in front of compressor). This parameter is only valid on engines which do have T0 temperature sensors mounted (e.g. P1000). In case there is no T0 sensor present a value of -100 is transferred. This parameter is available only on firmware 12.49 or higher.  RTY  Read Information  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. firmware version text string 2. Firmware version number 3. Last Run Time	1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 7. ECU sends in handshake: 8. Barometric pressure value in mbar 8. Current flight altitude in meters (absolute) 8. Current flight altitude in m (zero reference is the altitude were ECU was powered up) 9. Maximum flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 9. Temperature value reported by barometric sensor 9. To air inlet temperature (inlet temperature in front of compressor). This parameter is only valid on engines which do have T0 temperature sensors mounted (e.g. P1000). In case there is no T0 sensor present a value of -100 is transferred. This parameter is available only on firmware 12.49 or higher.  RTY  Read Information 1. Dummy parameter to initiate transfer 7 ECU sends in handshake: 1. firmware version text string 2. Firmware version number 3. Last Run Time
	Read system status	⇒ ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8 barometric pressure sensor 8 in handshake: 1. Dummy parameter to initiate transfer 9 ECU sends in handshake: 1. Barometric pressure value in mbar 2. Pressure altitude in meters (absolute) 3. Current flight altitude in meters (absolute) 4. Maximum flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 5. Temperature value reported by barometric sensor 6. To air inlet temperature (inlet temperature in front of compressor). This parameter is only valid on engines which do have T0 temperature sensors mounted (e.g. P1000). In case there is no T0 sensor present a value of -100 is transferred. This parameter is available only on firmware 12.49 or higher.  Read Information 1. Dummy parameter to initiate transfer 7 ECU sends in handshake: 1. firmware version text string	Read system status	3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 7. ECU sends in handshake: 8. Pressure altitude in meters (absolute) 9. Current flight altitude in m (zero reference is the altitude were ECU was powered up) 9. Maximum flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 9. Temperature value reported by barometric sensor 6. To air inlet temperature (inlet temperature in front of compressor). This parameter is only valid on engines which do have To temperature sensors mounted (e.g. P1000). In case there is no To sensor present a value of -100 is transferred. This parameter is available only on firmware 12.49 or higher.  Read Information 9 1023 0 1023 1. Jummy parameter to initiate transfer 1. Dummy parameter to initiate transfer 1. Dummy parameter to initiate transfer 2. Pressure altitude in mbar 2. Pressure altitude were ECU was powered up) 3. Current flight altitude in m (zero reference is the altitude were ECU was powered up) 4. Maximum flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 5. Temperature value reported by barometric sensor 6. To air inlet temperature (inlet temperature in front of compressor). This parameter is only valid on engines which do have To temperature sensors mounted (e.g. P1000). In case there is no To sensor present a value of -100 is transferred. This parameter is available only on firmware 12.49 or higher.  Read Information 1. Dummy parameter to initiate transfer 3. ECU sends in handshake: 1. firmware version text string	1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 7. ECU sends in handshake: 8 Barometric pressure sensor 1. Barometric pressure value in mbar 2. Pressure altitude in meters (absolute) 3. Current flight altitude in m (zero reference is the altitude were ECU was powered up) 4. Maximum flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 5. Temperature value reported by barometric sensor 6. To air inlet temperature (inlet temperature in front of compressor). This parameter is only valid on engines which do have T0 temperature sensors mounted (e.g. P1000). In case there is no T0 sensor present a value of -100 is transferred. This parameter is available only on firmware 12.49 or higher.  Read Information 1. Dummy parameter to initiate transfer 7 ECU sends in handshake: 1. firmware version text string
	RSS Read system status  1. Dummy parameter to initiate transfer → ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer → ECU sends in handshake:  1. Barometric pressure sensor 7. Barometric pressure value in mbar 2. Pressure altitude in meters (absolute) 3. Current flight altitude in meters (absolute) 4. Maximum flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 5. Temperature value reported by barometric sensor 6. To air inlet temperature (inlet temperature in front of compressor). This parameter is only valid on engines which do have TO temperature sensors mounted (e.g. P1000). In case there is no TO sensor present a value of -100 is transferred. This parameter is available only on firmware 12.49 or higher.  RETY  Read Information  1. Dummy parameter to initiate transfer → ECU sends in handshake:  1. firmware version text string 2. Firmware version text string 2. Firmware version number	## DECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8 barometric pressure 8 sensor 1. Barometric pressure value in mbar 2. Pressure altitude in meters (absolute) 3. Current flight altitude in m (zero reference is the altitude were ECU was powered up) 4. Maximum flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 5. Temperature value reported by barometric sensor 6. To air inlet temperature (inlet temperature in front of compressor). This parameter is only valid on engines which do have T0 temperature sensors mounted (e.g. P1000). In case there is no T0 sensor present a value of -100 is transferred. This parameter is available only on firmware 12.49 or higher.  **RTY**  **Read Information**  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. firmware version text string 2. Firmware version number	RSS Read system status  1. Dummy parameter to initiate transfer → ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer → ECU sends in handshake:  1. Barometric pressure sensor 7. Barometric pressure value in mbar 7. Pressure altitude in meters (absolute) 8. Current flight altitude in meters (absolute) 9. Maximum flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 9. Temperature value reported by barometric sensor 6. To air inlet temperature (inlet temperature in front of compressor). This parameter is only valid on engines which do have TO temperature sensors mounted (e.g. P1000). In case there is no TO sensor present a value of -100 is transferred. This parameter is available only on firmware 12.49 or higher.  RETY  Read Information  1. Dummy parameter to initiate transfer → ECU sends in handshake:  1. firmware version text string 2. Firmware version text string 2. Firmware version number	3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8 barometric pressure sensor 8	1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. AD-Zero value of Airspeed input 8. AD-Zero value of Airspeed input 9. ECU sends in handshake:  1. Dummy parameter to initiate transfer  ⇒ ECU sends in handshake:  2. Pressure altitude in meters (absolute) 3. Current flight altitude in m (zero reference is the altitude were ECU was powered up) 4. Maximum flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 5. Temperature value reported by barometric sensor 6. To air inlet temperature (inlet temperature in front of compressor). This parameter is only valid on engines which do have T0 temperature sensors mounted (e.g. P1000). In case there is no T0 sensor present a value of -100 is transferred. This parameter is available only on firmware 12.49 or higher.  RRTY  Read Information  1. Dummy parameter to initiate transfer  ⇒ ECU sends in handshake:  1. firmware version text string 2. Firmware version number
	RSS  Read system status  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter (always read as 1)  2. Off-Condition  3. Actual Flight Speed  4. Proportional part of Speed regulator  5. AD-value of Airspeed input  6. AD-Zero value of Airspeed input  7. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Barometric pressure sensor  Firmware 12.45 or higher required!  1. Barometric pressure value in mbar  2. Pressure altitude in meters (absolute)  3. Current flight altitude in m (zero reference is the altitude were ECU was powered up)  4. Maximum flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up)  5. Temperature value reported by barometric sensor  6. To air inlet temperature (inlet temperature in front of compressor). This parameter is only valid on engines which do have T0 temperature sensors mounted (e.g. P.1000). In case there is no T0 sensor present a value of -100 is transferred. This parameter is available only on firmware 12.49 or higher.  RTY  Read Information  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. firmware version text string	Dummy parameter (always read as 1)  1. Dummy parameter (always read as 1)  2. Off-Condition  3. Actual Flight Speed  4. Proportional part of Speed regulator  5. AD-value of Airspeed input  6. AD-Zero value of Airspeed input  7. Dummy parameter to initiate transfer  8 ECU sends in handshake:  1. Barometric pressure sensor  1. Barometric pressure value in mbar  2. Pressure altitude in meters (absolute)  3. Current flight altitude in m (zero reference is the altitude were ECU was powered up)  4. Maximum flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up)  5. Temperature value reported by barometric sensor  6. To air inlet temperature (inlet temperature in front of compressor). This parameter is only valid on engines which do have T0 temperature sensors mounted (e.g. P1000). In case there is no T0 sensor present a value of -100 is transferred. This parameter is available only on firmware 12.49 or higher.  RRY  Read Information  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. firmware version text string	RSS  Read system status  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter (always read as 1)  2. Off-Condition  3. Actual Flight Speed  4. Proportional part of Speed regulator  5. AD-value of Airspeed input  6. AD-Zero value of Airspeed input  7. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Barometric pressure sensor  Firmware 12.45 or higher required!  1. Barometric pressure value in mbar  2. Pressure altitude in meters (absolute)  3. Current flight altitude in m (zero reference is the altitude were ECU was powered up)  4. Maximum flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up)  5. Temperature value reported by barometric sensor  6. To air inlet temperature in front of compressor). This parameter is only valid on engines which do have T0 temperature sensors mounted (e.g. P.1000). In case there is no T0 sensor present a value of -100 is transferred. This parameter is available only on firmware 12.49 or higher.  RTY  Read Information  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. firmware version text string	3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer ⇒ ECU sends in handshake: 8. Description of this parameter is available only on firmware 12.49 or higher.  1. Barometric pressure value in mbar 2. Pressure altitude in meters (absolute) 3. Current flight altitude in m (zero reference is the altitude were ECU was powered up) 4. Maximum flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 5. Temperature value reported by barometric sensor 6. To air inlet temperature (inlet temperature in front of compressor). This parameter is only valid on engines which do have T0 temperature sensors mounted (e.g. P1000). In case there is no T0 sensor present a value of -100 is transferred. This parameter is available only on firmware 12.49 or higher.  RETY  Read Information  3. O1023 01023 1. Dummy parameter to initiate transfer → ECU sends in handshake: 1. firmware version text string	1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 7. ECU sends in handshake: 8. Barometric pressure sensor 8. Barometric pressure value in mbar 9. Pressure altitude in meters (absolute) 9. Current flight altitude in m (zero reference is the altitude were ECU was powered up) 9. Maximum flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 9. Temperature value reported by barometric sensor 9. To air inlet temperature (inlet temperature in front of compressor). This parameter is only valid on engines which do have T0 temperature sensors mounted (e.g. P1000). In case there is no T0 sensor present a value of -100 is transferred. This parameter is available only on firmware 12.49 or higher.  RTY  Read Information 1. Dummy parameter to initiate transfer 7 ECU sends in handshake: 1. firmware version text string
	RSS Read system status  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer → ECU sends in handshake:  1. Barometric pressure sensor  Firmware 12.45 or higher required! 7. Maximum flight altitude in meters (absolute) 7. Temperature value reported by barometric sensor 8. To air inlet temperature (inlet temperature in front of compressor). This parameter is only valid on engines which do have T0 temperature sensors mounted (e.g. P1000). In case there is no T0 sensor present a value of -100 is transferred. This parameter is available only on firmware 12.49 or higher.  RTY  Read Information  1. Dummy parameter to initiate transfer → ECU sends in handshake:  1. Dummy parameter to initiate transfer → ECU sends in handshake:  1. Dummy parameter to initiate transfer → ECU sends in handshake:  1. In firmware version text string	Dummy parameter (always read as 1)  1. Dummy parameter (always read as 1)  2. Off-Condition  3. Actual Flight Speed  4. Proportional part of Speed regulator  5. AD-value of Airspeed input  6. AD-Zero value of Airspeed input  7. Dummy parameter to initiate transfer  8 ECU sends in handshake:  1. Barometric pressure sensor  1. Barometric pressure value in mbar  2. Pressure altitude in meters (absolute)  3. Current flight altitude in m (zero reference is the altitude were ECU was powered up)  4. Maximum flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up)  5. Temperature value reported by barometric sensor  6. To air inlet temperature (inlet temperature in front of compressor). This parameter is only valid on engines which do have T0 temperature sensors mounted (e.g. P1000). In case there is no T0 sensor present a value of -100 is transferred. This parameter is available only on firmware 12.49 or higher.  RRY  Read Information  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. firmware version text string	RSS  Read system status  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter (always read as 1)  2. Off-Condition  3. Actual Flight Speed  4. Proportional part of Speed regulator  5. AD-value of Airspeed input  6. AD-Zero value of Airspeed input  7. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Barometric pressure sensor  Firmware 12.45 or higher required!  1. Barometric pressure value in mbar  2. Pressure altitude in meters (absolute)  3. Current flight altitude in m (zero reference is the altitude were ECU was powered up)  4. Maximum flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up)  5. Temperature value reported by barometric sensor  6. To air inlet temperature in front of compressor). This parameter is only valid on engines which do have T0 temperature sensors mounted (e.g. P.1000). In case there is no T0 sensor present a value of -100 is transferred. This parameter is available only on firmware 12.49 or higher.  RTY  Read Information  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. firmware version text string	3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer ⇒ ECU sends in handshake: 8. Description of this parameter is available only on firmware 12.49 or higher.  1. Barometric pressure value in mbar 2. Pressure altitude in meters (absolute) 3. Current flight altitude in m (zero reference is the altitude were ECU was powered up) 4. Maximum flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 5. Temperature value reported by barometric sensor 6. To air inlet temperature (inlet temperature in front of compressor). This parameter is only valid on engines which do have T0 temperature sensors mounted (e.g. P1000). In case there is no T0 sensor present a value of -100 is transferred. This parameter is available only on firmware 12.49 or higher.  RETY  Read Information  3. O1023 01023 1. Dummy parameter to initiate transfer → ECU sends in handshake: 1. firmware version text string	1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 7. ECU sends in handshake: 8 Pressure altitude in meters (absolute) 8. Current flight altitude in m (zero reference is the altitude were ECU was powered up) 9. Maximum flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 9. Temperature value reported by barometric sensor 6. To air inlet temperature (inlet temperature in front of compressor). This parameter is only valid on engines which do have T0 temperature sensors mounted (e.g. P1000). In case there is no T0 sensor present a value of -100 is transferred. This parameter is available only on firmware 12.49 or higher.  RTY  Read Information 1. Dummy parameter to initiate transfer 7 ECU sends in handshake: 1. firmware version text string
· · · · · · · · · · · · · · · · · · ·	RSS Read system status  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer → ECU sends in handshake:  1. Dummy parameter to initiate transfer → ECU sends in handshake:  1. Barometric pressure value in mbar 2. Pressure altitude in meters (absolute) 3. Current flight altitude in m (zero reference is the altitude were ECU was powered up) 4. Maximum flight altitude in m (zero reference is the altitude were ECU was powered up) 5. Temperature value reported by barometric sensor 6. To air inlet temperature (inlet temperature in front of compressor). This parameter is only valid on engines which do have T0 temperature sensors mounted (e.g. P1000). In case there is no T0 sensor present a value of -100 is transferred. This parameter is available only on firmware 12.49 or higher.  RTY  Read Information  1. Dummy parameter to initiate transfer → ECU sends in handshake:  1. Dummy parameter to initiate transfer → ECU sends in handshake:  1. Dummy parameter to initiate transfer → ECU sends in handshake:  1. Dummy parameter to initiate transfer → ECU sends in handshake:	The properties of the parameter (always read as 1)  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 7. ECU sends in handshake: 8. PECU sends in handshake: 9. Pressure altitude in meters (absolute) 9. Current flight altitude in m (zero reference is the altitude were ECU was powered up) 9. Temperature value reported by barometric sensor 6. To air inlet temperature (inlet temperature in front of compressor). This parameter is only valid on engines which do have TO temperature sensors mounted (e.g. P1000). In case there is no TO sensor present a value of -100 is transferred. This parameter is available only on firmware 12.49 or higher.  1. Dummy parameter to initiate transfer 7. ECU sends in handshake:  1. Dummy parameter to initiate transfer 7. ECU sends in handshake: 1. Dummy parameter to initiate transfer 7. ECU sends in handshake: 1. Dummy parameter to initiate transfer 7. ECU sends in handshake:	RSS  Read system status  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. AD-value of Airspeed input 8. AD-Zero value of Airspeed input 9. Loummy parameter to initiate transfer  → ECU sends in handshake:  1. Barometric pressure sensor 1. Barometric pressure value in mbar 2. Pressure altitude in meters (absolute) 3. Current flight altitude in m (zero reference is the altitude were ECU was powered up) 4. Maximum flight altitude in m (zero reference is the altitude were ECU was powered up) 5. Temperature value reported by barometric sensor 6. To air inlet temperature (inlet temperature in front of compressor). This parameter is only valid on engines which do have T0 temperature sensors mounted (e.g. P1000). In case there is no T0 sensor present a value of -100 is transferred. This parameter is available only on firmware 12.49 or higher.  RTY  Read Information  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter to initiate transfer  → ECU sends in handshake:	3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer → ECU sends in handshake: 8. Pressure altitude in meters (absolute) 8. Current flight altitude in m (zero reference is the altitude were ECU was powered up) 9. Temperature value reported by barometric sensor 9. To air inlet temperature (inlet temperature in front of compressor). This parameter is only valid on engines which do have T0 temperature sensors mounted (e.g. P1000). In case there is no T0 sensor present a value of -100 is transferred. This parameter is available only on firmware 12.49 or higher.  8. Actual Flight Speed 9 1023 9 102	1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8 barometric pressure sensor 8 1. Dummy parameter to initiate transfer 9 ECU sends in handshake: 9 1. Barometric pressure value in mbar 1. Barometric pressure value in mbar 2. Pressure altitude in meters (absolute) 3. Current flight altitude in m (zero reference is the altitude were ECU was powered up) 4. Maximum flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 5. Temperature value reported by barometric sensor 6. To air inlet temperature (inlet temperature in front of compressor). This parameter is only valid on engines which do have TO temperature sensors mounted (e.g. P1000). In case there is no TO sensor present a value of -100 is transferred. This parameter is available only on firmware 12.49 or higher.  RTY  Read Information  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1 042 (see Table) 0500 km/h 01023 01023  301100 -50011000 -50011000 -50011000 -70011000 -70011000 011000 011000 011000 011000 011000 111000 011000 111000 011000 11
ii number	RSS Read system status  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer → ECU sends in handshake:  1. Dummy parameter to initiate transfer → ECU sends in handshake:  1. Barometric pressure value in mbar 2. Pressure altitude in meters (absolute) 3. Current flight altitude in m (zero reference is the altitude were ECU was powered up) 4. Maximum flight altitude in m (zero reference is the altitude were ECU was powered up) 5. Temperature value reported by barometric sensor 6. To air inlet temperature (inlet temperature in front of compressor). This parameter is only valid on engines which do have T0 temperature sensors mounted (e.g. P1000). In case there is no T0 sensor present a value of -100 is transferred. This parameter is available only on firmware 12.49 or higher.  RTY  Read Information  1. Dummy parameter to initiate transfer → ECU sends in handshake:  1. Dummy parameter to initiate transfer → ECU sends in handshake:  1. Dummy parameter to initiate transfer → ECU sends in handshake:  1. Dummy parameter to initiate transfer → ECU sends in handshake:	The properties of the parameter (always read as 1)  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 7. ECU sends in handshake: 8. PECU sends in handshake: 9. Pressure altitude in meters (absolute) 9. Current flight altitude in m (zero reference is the altitude were ECU was powered up) 9. Temperature value reported by barometric sensor 6. To air inlet temperature (inlet temperature in front of compressor). This parameter is only valid on engines which do have TO temperature sensors mounted (e.g. P1000). In case there is no TO sensor present a value of -100 is transferred. This parameter is available only on firmware 12.49 or higher.  1. Dummy parameter to initiate transfer 7. ECU sends in handshake:  1. Dummy parameter to initiate transfer 7. ECU sends in handshake: 1. Dummy parameter to initiate transfer 7. ECU sends in handshake: 1. Dummy parameter to initiate transfer 7. ECU sends in handshake:	RSS  Read system status  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. AD-value of Airspeed input 8. AD-Zero value of Airspeed input 9. Loummy parameter to initiate transfer  → ECU sends in handshake:  1. Barometric pressure sensor 1. Barometric pressure value in mbar 2. Pressure altitude in meters (absolute) 3. Current flight altitude in m (zero reference is the altitude were ECU was powered up) 4. Maximum flight altitude in m (zero reference is the altitude were ECU was powered up) 5. Temperature value reported by barometric sensor 6. To air inlet temperature (inlet temperature in front of compressor). This parameter is only valid on engines which do have T0 temperature sensors mounted (e.g. P1000). In case there is no T0 sensor present a value of -100 is transferred. This parameter is available only on firmware 12.49 or higher.  RTY  Read Information  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter to initiate transfer  → ECU sends in handshake:	3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer → ECU sends in handshake: 8. Pressure altitude in meters (absolute) 8. Current flight altitude in m (zero reference is the altitude were ECU was powered up) 9. Temperature value reported by barometric sensor 9. To air inlet temperature (inlet temperature in front of compressor). This parameter is only valid on engines which do have T0 temperature sensors mounted (e.g. P1000). In case there is no T0 sensor present a value of -100 is transferred. This parameter is available only on firmware 12.49 or higher.  8. Actual Flight Speed 9 1023 9 102	1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8 barometric pressure sensor 8 1. Dummy parameter to initiate transfer 9 ECU sends in handshake: 9 1. Barometric pressure value in mbar 1. Barometric pressure value in mbar 2. Pressure altitude in meters (absolute) 3. Current flight altitude in m (zero reference is the altitude were ECU was powered up) 4. Maximum flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 5. Temperature value reported by barometric sensor 6. To air inlet temperature (inlet temperature in front of compressor). This parameter is only valid on engines which do have TO temperature sensors mounted (e.g. P1000). In case there is no TO sensor present a value of -100 is transferred. This parameter is available only on firmware 12.49 or higher.  RTY  Read Information  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1 042 (see Table) 0500 km/h 01023 01023  301100 -50011000 -50011000 -50011000 -70011000 -70011000 011000 011000 011000 011000 011000 111000 011000 111000 011000 11
n number	RSS Read system status  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8 barometric pressure sensor 8	### DECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8. Bead values from barometric pressure sensor 8. ECU sends in handshake: 9. Pressure altitude in mbar 9. Current flight altitude in meters (absolute) 9. Current flight altitude in m (zero reference is the altitude were ECU was powered up) 9. Maximum flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 9. Temperature value reported by barometric sensor 9. To air inlet temperature (inlet temperature in front of compressor). This parameter is only valid on engines which do have T0 temperature sensors mounted (e.g. P1000). In case there is no T0 sensor present a value of -100 is transferred. This parameter is available only on firmware 12.49 or higher.  RTY Read Information 1. Dummy parameter to initiate transfer 1	RSS Read system status  1. Dummy parameter to initiate transfer → ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. AD-value of Airspeed input 8. AD-zero value of Airspeed input 9. In Dummy parameter to initiate transfer → ECU sends in handshake:  1. Dummy parameter to initiate transfer → ECU sends in handshake:  1. Dummy parameter to initiate transfer → ECU sends in handshake:  1. Dummy parameter to initiate transfer → ECU sends in handshake:  2. Pressure altitude in meters (absolute) 3. Current flight altitude in meters (absolute) 4. Maximum flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 4. Maximum flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 5. Temperature value reported by barometric sensor 6. To air inlet temperature (inlet temperature in front of compressor). This parameter is only valid on engines which do have T0 temperature sensors mounted (e.g. P1000). In case there is no T0 sensor present a value of -100 is transferred. This parameter is available only on firmware 12.49 or higher.  RTY Read Information 1. Dummy parameter to initiate transfer 1	3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8 barometric pressure sensor 8 barometric pressure sensor 9 current flight altitude in meters (absolute) 9 current flight altitude in m (zero reference is the altitude were ECU was powered up) 9 current flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 9 current flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 9 current flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 9 current flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 9 current flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 9 current flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 9 current flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 9 current flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 9 current flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 9 current flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 9 current flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 9 current flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 9 current flight altitude in m (zero reference is the altitude were ECU was powered up) 9 current flight altitude in m (zero reference is the altitude were ECU was powered up) 9 current flight altitude in m (zero reference is the altitude were ECU was powered up) 9 current flight altitude in m (zero reference is the altitude were ECU was powered up) 9 current fl	1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8 barometric pressure sensor 8 barometric pressure sensor 9
=	RSS Read system status  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8 barometric pressure sensor 8	### DECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8. Bead values from barometric pressure sensor 8. ECU sends in handshake: 9. Pressure altitude in mbar 9. Current flight altitude in meters (absolute) 9. Current flight altitude in m (zero reference is the altitude were ECU was powered up) 9. Maximum flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 9. Temperature value reported by barometric sensor 9. To air inlet temperature (inlet temperature in front of compressor). This parameter is only valid on engines which do have T0 temperature sensors mounted (e.g. P1000). In case there is no T0 sensor present a value of -100 is transferred. This parameter is available only on firmware 12.49 or higher.  RTY Read Information 1. Dummy parameter to initiate transfer 1	RSS Read system status  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. AD-value of Airspeed input 8. AD-value of Airspeed input 9. I. Dummy parameter to initiate transfer 9. ECU sends in handshake:  1. Dummy parameter to initiate transfer 9. ECU sends in handshake:  1. Dummy parameter to initiate transfer 9. ECU sends in handshake:  1. Barometric pressure value in mbar 2. Pressure altitude in meters (absolute) 3. Current flight altitude in m (zero reference is the altitude were ECU was powered up) 4. Maximum flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 5. Temperature value reported by barometric sensor 6. To air inlet temperature (inlet temperature in front of compressor). This parameter is only valid on engines which do have T0 temperature sensors mounted (e.g. P1000). In case there is no T0 sensor present a value of -100 is transferred. This parameter is available only on firmware 12.49 or higher.  RTY Read Information 1. Dummy parameter to initiate transfer 1	3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8 barometric pressure sensor 8 barometric pressure sensor 9 current flight altitude in meters (absolute) 9 current flight altitude in m (zero reference is the altitude were ECU was powered up) 9 current flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 9 current flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 9 current flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 9 current flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 9 current flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 9 current flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 9 current flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 9 current flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 9 current flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 9 current flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 9 current flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 9 current flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 9 current flight altitude in m (zero reference is the altitude were ECU was powered up) 9 current flight altitude in m (zero reference is the altitude were ECU was powered up) 9 current flight altitude in m (zero reference is the altitude were ECU was powered up) 9 current flight altitude in m (zero reference is the altitude were ECU was powered up) 9 current fl	1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8 barometric pressure sensor 8 barometric pressure sensor 9
=	RSS Read system status  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 9 barometric pressure sensor 1. Dummy parameter to initiate transfer 9 ECU sends in handshake:  1. Dummy parameter to initiate transfer 9 ECU sends in handshake:  1. Dummy parameter to initiate transfer 9 ECU sends in handshake:  2. Pressure altitude in mbar 2. Pressure altitude in mbar 2. Pressure altitude in m (zero reference is the altitude were ECU was powered up) 4. Maximum flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 5. Temperature value reported by barometric sensor 6. To air inlet temperature (inlet temperature in front of compressor). This parameter is only valid on engines which do have T0 temperature sensors mounted (e.g. P1000). In case there is no T0 sensor present a value of -100 is transferred. This parameter is available only on firmware 12.49 or higher.	Dummy parameter (always read as 1)  2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer PECU sends in handshake:  1. Dummy parameter to initiate transfer PECU sends in handshake:  1. Barometric pressure sensor  1. Barometric pressure value in mbar 2. Pressure altitude in meters (absolute) 3. Current flight altitude in m (zero reference is the altitude were ECU was powered up) 4. Maximum flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 5. Temperature value reported by barometric sensor 6. To air inlet temperature (inlet temperature in front of compressor). This parameter is only valid on engines which do have T0 temperature sensors mounted (e.g. P1000). In case there is no T0 sensor present a value of -100 is transferred. This parameter is available only on firmware 12.49 or higher.	RSS Read system status  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8 barometric pressure 8 sensor  1. Dummy parameter to initiate transfer 9 ECU sends in handshake:  1. Dummy parameter to initiate transfer 9 ECU sends in handshake:  1. Dummy parameter to initiate transfer 9 ECU sends in handshake:  1. Barometric pressure value in mbar 2. Pressure altitude in meters (absolute) 3. Current flight altitude in m (zero reference is the altitude were ECU was powered up) 4. Maximum flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 5. Temperature value reported by barometric sensor 6. To air inlet temperature (inlet temperature in front of compressor). This parameter is only valid on engines which do have T0 temperature sensors mounted (e.g. P1000). In case there is no T0 sensor present a value of -100 is transferred. This parameter is available only on firmware 12.49 or higher.	3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer ⇒ ECU sends in handshake:  1. Barometric pressure value in mbar 2. Pressure altitude in meters (absolute) 3. Current flight altitude in m (zero reference is the altitude were ECU was powered up) 4. Maximum flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 5. Temperature value reported by barometric sensor 6. T0 air inlet temperature (inlet temperature in front of compressor). This parameter is only valid on engines which do have T0 temperature sensors mounted (e.g. P1000). In case there is no T0 sensor present a value of -100 is transferred. This parameter is available only on firmware 12.49 or higher.	1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8 ECU sends in handshake: 9 ECU sends in handshake: 1. Barometric pressure value in mbar 2. Pressure altitude in meters (absolute) 3. Current flight altitude in m (zero reference is the altitude were ECU was powered up) 4. Maximum flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 5. Temperature value reported by barometric sensor 6. To air inlet temperature (inlet temperature in front of compressor). This parameter is only valid on engines which do have T0 temperature sensors mounted (e.g. P1000). In case there is no T0 sensor present a value of -100 is transferred. This parameter is available only on firmware 12.49 or higher.
n text string	RSS Read system status  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Barometric pressure sensor 1. Barometric pressure value in mbar 2. Pressure altitude in meters (absolute) 3. Current flight altitude in m (zero reference is the altitude were ECU was powered up) 4. Maximum flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 5. Temperature value reported by barometric sensor 6. To air inlet temperature (inlet temperature in front of compressor). This parameter is only valid on engines which do have T0 temperature sensors mounted (e.g. P1000). In case there is no T0 sensor present a value of -100	The properties of the parameter (always read as 1)  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8 barometric pressure sensor 8 arometric pressure value in mbar 9 barometric pressure value in mbar 1. Barometric pressure value in mbar 2. Pressure altitude in meters (absolute) 3. Current flight altitude in m (zero reference is the altitude were ECU was powered up) 4. Maximum flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 5. Temperature value reported by barometric sensor 6. To air inlet temperature (inlet temperature in front of compressor). This parameter is only valid on engines which do have T0 temperature sensors mounted (e.g. P1000). In case there is no T0 sensor present a value of -100	RSS Read system status  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8 Head values from barometric pressure sensor 8 Firmware 12.45 or higher required! 1. Barometric pressure value in mbar 2. Pressure altitude in meters (absolute) 3. Current flight altitude in m (zero reference is the altitude were ECU was powered up) 4. Maximum flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 5. Temperature value reported by barometric sensor 8. To air inlet temperature (inlet temperature in front of compressor). This parameter is only valid on engines which do have T0 temperature sensors mounted (e.g. P1000). In case there is no T0 sensor present a value of -100	3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8 barometric pressure sensor 8 barometric pressure sensor 9 c	1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8 barometric pressure sensor 8
: n text string	RSS Read system status  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 7. → ECU sends in handshake:  RPR Read values from barometric pressure sensor 1. Barometric pressure value in mbar 2. Pressure altitude in meters (absolute) 3. Current flight altitude in m (zero reference is the altitude were ECU was powered up) 4. Maximum flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 5. Temperature value reported by barometric sensor 6. To air inlet temperature (inlet temperature in front of compressor). This parameter is only valid on engines which do have T0 temperature sensors mounted (e.g. P1000). In case there is no T0 sensor present a value of -100	The properties of the parameter (always read as 1)  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8 barometric pressure sensor 8 arometric pressure value in mbar 9 barometric pressure value in mbar 1. Barometric pressure value in mbar 2. Pressure altitude in m (zero reference is the altitude were ECU was powered up) 4. Maximum flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 5. Temperature value reported by barometric sensor 6. To air inlet temperature (inlet temperature in front of compressor). This parameter is only valid on engines which do have T0 temperature sensors mounted (e.g. P1000). In case there is no T0 sensor present a value of -100	RSS Read system status  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8 Head values from barometric pressure sensor 8 Firmware 12.45 or higher required! 1. Barometric pressure value in mbar 2. Pressure altitude in meters (absolute) 3. Current flight altitude in m (zero reference is the altitude were ECU was powered up) 4. Maximum flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 5. Temperature value reported by barometric sensor 8. To air inlet temperature (inlet temperature in front of compressor). This parameter is only valid on engines which do have T0 temperature sensors mounted (e.g. P1000). In case there is no T0 sensor present a value of -100	3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8 barometric pressure sensor 8 barometric pressure sensor 9 c	1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8 barometric pressure sensor 8 Firmware 12.45 or higher required! 9 1. Barometric pressure value in mbar 2. Pressure altitude in meters (absolute) 3. Current flight altitude in m (zero reference is the altitude were ECU was powered up) 4. Maximum flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 5. Temperature value reported by barometric sensor 6. To air inlet temperature (inlet temperature in front of compressor). This parameter is only valid on engines which do have T0 temperature sensors mounted (e.g. P1000). In case there is no T0 sensor present a value of -100
: n text string	RSS Read system status  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 7. → ECU sends in handshake:  RPR Read values from barometric pressure sensor 1. Barometric pressure value in mbar 2. Pressure altitude in meters (absolute) 3. Current flight altitude in m (zero reference is the altitude were ECU was powered up) 4. Maximum flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 5. Temperature value reported by barometric sensor 6. To air inlet temperature (inlet temperature in front of compressor). This parameter is only valid on engines which do have T0 temperature sensors mounted (e.g. P1000). In case there is no T0 sensor present a value of -100	## DECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8 barometric pressure sensor 8 barometric pressure value in mbar 9 barometric pressure value in mbar 1. Barometric pressure value in mbar 2. Pressure altitude in m (zero reference is the altitude were ECU was powered up) 4. Maximum flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 5. Temperature value reported by barometric sensor 6. To air inlet temperature (inlet temperature in front of compressor). This parameter is only valid on engines which do have T0 temperature sensors mounted (e.g. P1000). In case there is no T0 sensor present a value of -100	RSS Read system status  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8	3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8 barometric pressure sensor 8 barometric pressure sensor 9 c	1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8 barometric pressure sensor 8 Firmware 12.45 or higher required! 9 1. Barometric pressure value in mbar 2. Pressure altitude in meters (absolute) 3. Current flight altitude in m (zero reference is the altitude were ECU was powered up) 4. Maximum flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 5. Temperature value reported by barometric sensor 6. To air inlet temperature (inlet temperature in front of compressor). This parameter is only valid on engines which do have T0 temperature sensors mounted (e.g. P1000). In case there is no T0 sensor present a value of -100
: n text string	RSS Read system status  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 7. ⇒ ECU sends in handshake:  RPR Read values from barometric pressure sensor  Firmware 12.45 or higher required! 1. Barometric pressure value in mbar 2. Pressure altitude in meters (absolute) 3. Current flight altitude in m (zero reference is the altitude were ECU was powered up) 4. Maximum flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 5. Temperature value reported by barometric sensor 6. T0 air inlet temperature (inlet temperature in front of compressor). This parameter is only valid on engines which do have T0 temperature sensors	## Decoused in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8 ⇒ ECU sends in handshake:  1. Dummy parameter to initiate transfer 9 ⇒ ECU sends in handshake:  1. Barometric pressure sensor 1. Barometric pressure value in mbar 2. Pressure altitude in meters (absolute) 3. Current flight altitude in m (zero reference is the altitude were ECU was powered up) 4. Maximum flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 5. Temperature value reported by barometric sensor 6. To air inlet temperature (inlet temperature in front of compressor). This parameter is only valid on engines which do have T0 temperature sensors	RSS Read system status  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8	3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8 barometric pressure sensor 8 1. Dummy parameter to initiate transfer 9 ECU sends in handshake: 9 1. Barometric pressure value in mbar 1. Barometric pressure value in mbar 2. Pressure altitude in meters (absolute) 3. Current flight altitude in m (zero reference is the altitude were ECU was powered up) 4. Maximum flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 5. Temperature value reported by barometric sensor 6. To air inlet temperature (inlet temperature in front of compressor). This parameter is only valid on engines which do have T0 temperature sensors	1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8 barometric pressure 8 sensor 8 1. Dummy parameter to initiate transfer 9 ECU sends in handshake: 9 1. Barometric pressure value in mbar 1. Barometric pressure value in mbar 2. Pressure altitude in meters (absolute) 3. Current flight altitude in m (zero reference is the altitude were ECU was powered up) 4. Maximum flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 5. Temperature value reported by barometric sensor 6. To air inlet temperature (inlet temperature in front of compressor). This parameter is only valid on engines which do have T0 temperature sensors
tiate transfer 1 : n text string	RSS Read system status  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 7. ⇒ ECU sends in handshake:  RPR Read values from barometric pressure sensor  Firmware 12.45 or higher required! 1. Barometric pressure value in mbar 2. Pressure altitude in meters (absolute) 3. Current flight altitude in m (zero reference is the altitude were ECU was powered up) 4. Maximum flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 5. Temperature value reported by barometric sensor 6. T0 air inlet temperature (inlet temperature in front of compressor). This parameter is only valid on engines which do have T0 temperature sensors	## Decoused in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8 ⇒ ECU sends in handshake:  1. Dummy parameter to initiate transfer 9 ⇒ ECU sends in handshake:  1. Barometric pressure sensor 1. Barometric pressure value in mbar 2. Pressure altitude in meters (absolute) 3. Current flight altitude in m (zero reference is the altitude were ECU was powered up) 4. Maximum flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 5. Temperature value reported by barometric sensor 6. To air inlet temperature (inlet temperature in front of compressor). This parameter is only valid on engines which do have T0 temperature sensors	RSS Read system status  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8	3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8 barometric pressure sensor 8 1. Dummy parameter to initiate transfer 9 ECU sends in handshake: 9 1. Barometric pressure value in mbar 1. Barometric pressure value in mbar 2. Pressure altitude in meters (absolute) 3. Current flight altitude in m (zero reference is the altitude were ECU was powered up) 4. Maximum flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 5. Temperature value reported by barometric sensor 6. To air inlet temperature (inlet temperature in front of compressor). This parameter is only valid on engines which do have T0 temperature sensors	1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8 barometric pressure 8 sensor 8 1. Dummy parameter to initiate transfer 9 ECU sends in handshake: 9 1. Barometric pressure value in mbar 1. Barometric pressure value in mbar 2. Pressure altitude in meters (absolute) 3. Current flight altitude in m (zero reference is the altitude were ECU was powered up) 4. Maximum flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 5. Temperature value reported by barometric sensor 6. To air inlet temperature (inlet temperature in front of compressor). This parameter is only valid on engines which do have T0 temperature sensors
tiate transfer 1 : n text string	RSS Read system status  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8	Dummy parameter (always read as 1)  1. Dummy parameter (always read as 1)  2. Off-Condition  3. Actual Flight Speed  4. Proportional part of Speed regulator  5. AD-value of Airspeed input  6. AD-Zero value of Airspeed input  7. Dummy parameter to initiate transfer  8 ECU sends in handshake:  1. Dummy parameter to initiate transfer  9 ECU sends in handshake:  1. Barometric pressure value in mbar  2. Pressure altitude in meters (absolute)  3. Current flight altitude in m (zero reference is the altitude were ECU was powered up)  4. Maximum flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up)  5. Temperature value reported by barometric sensor  6. To air inlet temperature (inlet temperature in front of compressor). This parameter is only valid on engines which do have T0 temperature sensors	RSS Read system status  1. Dummy parameter to initiate transfer → ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer → ECU sends in handshake:  1. Barometric pressure sensor 1. Barometric pressure value in mbar Firmware 12.45 or higher required! 2. Pressure altitude in meters (absolute) 3. Current flight altitude in m (zero reference is the altitude were ECU was powered up) 4. Maximum flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 5. Temperature value reported by barometric sensor 6. To air inlet temperature (inlet temperature in front of compressor). This parameter is only valid on engines which do have T0 temperature sensors	3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8 barometric pressure sensor 8 1. Dummy parameter to initiate transfer 9 ECU sends in handshake: 9 1. Barometric pressure value in mbar 1. Barometric pressure value in mbar 2. Pressure altitude in meters (absolute) 3. Current flight altitude in m (zero reference is the altitude were ECU was powered up) 4. Maximum flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 5. Temperature value reported by barometric sensor 6. To air inlet temperature (inlet temperature in front of compressor). This parameter is only valid on engines which do have T0 temperature sensors	1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8 barometric pressure 8 sensor 8 barometric pressure 9 barometric pressure 9 barometric pressure 1. Barometric pressure value in mbar 1. Barometric pressure value in mbar 2. Pressure altitude in meters (absolute) 3. Current flight altitude in m (zero reference is the altitude were ECU was powered up) 4. Maximum flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 5. Temperature value reported by barometric sensor 6. To air inlet temperature (inlet temperature in front of compressor). This parameter is only valid on engines which do have T0 temperature sensors
rameter is available only on firmware 12.49 or higher.  tiate transfer : n text string	RSS Read system status  1. Dummy parameter to initiate transfer  ⇒ ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8 ⇒ ECU sends in handshake:  1. Dummy parameter to initiate transfer  ⇒ ECU sends in handshake:  1. Barometric pressure value in mbar 2. Pressure altitude in meters (absolute) 3. Current flight altitude in m (zero reference is the altitude were ECU was powered up) 4. Maximum flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 5. Temperature value reported by barometric sensor 6. To air inlet temperature (inlet temperature in front of compressor). This  1. Dummy parameter to initiate transfer 2. Dummy parameter to initiate transfer 3. Curous 3. Curous 3. Curous 3. Curous 3. Curous 4. Cu	## Description    Dummy parameter (always read as 1)   1   2. Off-Condition   3. Actual Flight Speed   4. Proportional part of Speed regulator   5. AD-value of Airspeed input   0 1023   0 1023   0 1023   0 1023	RSS Read system status  1. Dummy parameter to initiate transfer  ⇒ ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8 ⇒ ECU sends in handshake:  1. Dummy parameter to initiate transfer  ⇒ ECU sends in handshake:  1. Barometric pressure value in mbar 2. Pressure altitude in meters (absolute) 3. Current flight altitude in m (zero reference is the altitude were ECU was powered up) 4. Maximum flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 5. Temperature value reported by barometric sensor 6. To air inlet temperature (inlet temperature in front of compressor). This  1. Dummy parameter to initiate transfer 2. Dummy parameter to initiate transfer 3. Curous 3. Curous 3. Curous 3. Curous 3. Curous 4. Cu	3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8 barometric pressure sensor 8 l. Barometric pressure value in mbar 9 l. Barometric pressure value in mbar 1. Barometric pressure value in mbar 2. Pressure altitude in meters (absolute) 3. Current flight altitude in m (zero reference is the altitude were ECU was powered up) 4. Maximum flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 5. Temperature value reported by barometric sensor 6. To air inlet temperature (inlet temperature in front of compressor). This 7 c. 10 c. 1023 1 c. 1023 1 c. 1023 2 c. 10	1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8 barometric pressure sensor 8 barometric pressure sensor 9 current flight altitude in meters (absolute) 9 current flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 9 current flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 9 current flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 9 current flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 9 current flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 9 current flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 9 current flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 9 current flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 9 current flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 9 current flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 10 current flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 10 current flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 11 current flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 12 current flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 13 current flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 14 current flight altitude reached since ECU power up (zero re
rameter is available only on firmware 12.49 or higher.  tiate transfer : n text string	RSS Read system status  1. Dummy parameter to initiate transfer  ⇒ ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8 ⇒ ECU sends in handshake:  1. Dummy parameter to initiate transfer  ⇒ ECU sends in handshake:  1. Barometric pressure value in mbar 2. Pressure altitude in meters (absolute) 3. Current flight altitude in m (zero reference is the altitude were ECU was powered up) 4. Maximum flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 5. Temperature value reported by barometric sensor 6. To air inlet temperature (inlet temperature in front of compressor). This  1. Dummy parameter to initiate transfer 2. Dummy parameter to initiate transfer 3. Curous 3. Curous 3. Curous 3. Curous 3. Curous 4. Cu	## Description    Dummy parameter (always read as 1)   1   2. Off-Condition   3. Actual Flight Speed   4. Proportional part of Speed regulator   5. AD-value of Airspeed input   0 1023   0 1023   0 1023   0 1023	RSS Read system status  1. Dummy parameter to initiate transfer  ⇒ ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8 ⇒ ECU sends in handshake:  1. Dummy parameter to initiate transfer  ⇒ ECU sends in handshake:  1. Barometric pressure value in mbar 2. Pressure altitude in meters (absolute) 3. Current flight altitude in m (zero reference is the altitude were ECU was powered up) 4. Maximum flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 5. Temperature value reported by barometric sensor 6. To air inlet temperature (inlet temperature in front of compressor). This  1. Dummy parameter to initiate transfer 2. Dummy parameter to initiate transfer 3. Curous 3. Curous 3. Curous 3. Curous 3. Curous 4. Cu	3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8 barometric pressure sensor 8 l. Barometric pressure value in mbar 9 l. Barometric pressure value in mbar 1. Barometric pressure value in mbar 2. Pressure altitude in meters (absolute) 3. Current flight altitude in m (zero reference is the altitude were ECU was powered up) 4. Maximum flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 5. Temperature value reported by barometric sensor 6. To air inlet temperature (inlet temperature in front of compressor). This 7 c. 10 c. 1023 1 c. 1023 1 c. 1023 2 c. 10	1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8 barometric pressure sensor 8 barometric pressure sensor 9 current flight altitude in meters (absolute) 9 current flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 9 current flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 9 current flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 9 current flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 9 current flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 9 current flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 9 current flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 9 current flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 9 current flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 9 current flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 10 current flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 10 current flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 11 current flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 12 current flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 13 current flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 14 current flight altitude reached since ECU power up (zero re
In case there is no T0 sensor present a value of -100 rameter is available only on firmware 12.49 or higher.  Itiate transfer  Intext string	RSS Read system status  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1.	Dummy parameter (always read as 1)  1. Dummy parameter (always read as 1)  2. Off-Condition  3. Actual Flight Speed  4. Proportional part of Speed regulator  5. AD-value of Airspeed input  6. AD-Zero value of Airspeed input  7. Dummy parameter to initiate transfer  8 barometric pressure sensor  8 barometric pressure sensor  9 current flight altitude in meters (absolute)  1. Barometric pressure value in mbar  2. Pressure altitude in meters (absolute)  3. Current flight altitude in m (zero reference is the altitude were ECU was powered up)  4. Maximum flight altitude reached since ECU power up (zero reference is the altitude unitation of the altitude were ECU was powered up)  5. Temperature value reported by barometric sensor  3. Ourtent flight altitude -3. Ourtent flight altitude reached since ECU power up (zero reference is the altitude unitation of the altitude	RSS Read system status  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8 barometric pressure sensor  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  3001100  -50011000  -50011000  -100 11000  -100 11000  -100 11000  -100 11000  -100 11000  -100 11000  -100 11000  -100 11000  -100 11000  -100 11000  -100 11000  -100 11000	3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8 barometric pressure sensor 8 l. Barometric pressure value in mbar 9 l. Barometric pressure value in mbar 1. Barometric pressure value in mbar 2. Pressure altitude in meters (absolute) 3. Current flight altitude in m (zero reference is the altitude were ECU was powered up) 4. Maximum flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 5. Temperature value reported by barometric sensor 3 01023 1 1 1 2 2 2 3 01023 2 3 01023 2 1 2 3 01023 2 1 3 1 2 3 1	1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8 barometric pressure sensor 8 barometric pressure sensor 9 1. Dummy parameter to initiate transfer 1 → ECU sends in handshake: 1. Barometric pressure value in mbar 2. Pressure altitude in meters (absolute) 3. Current flight altitude in m (zero reference is the altitude were ECU was powered up) 4. Maximum flight altitude reached since ECU power up (zero reference is the altitude outlined of the altitude were ECU was powered up) 5. Temperature value reported by barometric sensor -30+60
In case there is no T0 sensor present a value of -100 rameter is available only on firmware 12.49 or higher.  Itiate transfer  Intext string	RSS Read system status  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  3001100  -50011000  -100 11000  -100 11000  -100 11000  -100 11000  -100 11000  -100 11000  -100 11000  -100 11000  -100 11000	Dummy parameter (always read as 1)  1. Dummy parameter (always read as 1)  2. Off-Condition  3. Actual Flight Speed  4. Proportional part of Speed regulator  5. AD-value of Airspeed input  6. AD-Zero value of Airspeed input  7. Dummy parameter to initiate transfer  8 barometric pressure sensor  8 barometric pressure sensor  9 current flight altitude in meters (absolute)  1. Barometric pressure value in mbar  2. Pressure altitude in meters (absolute)  3. Current flight altitude in m (zero reference is the altitude were ECU was powered up)  4. Maximum flight altitude reached since ECU power up (zero reference is the altitude unitation of the altitude were ECU was powered up)  5. Temperature value reported by barometric sensor  3. Ourtent flight altitude -3. Ourtent flight altitude reached since ECU power up (zero reference is the altitude unitation of the altitude	RSS Read system status  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8 barometric pressure sensor  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  3001100  -50011000  -50011000  -100 11000  -100 11000  -100 11000  -100 11000  -100 11000  -100 11000  -100 11000  -100 11000  -100 11000  -100 11000  -100 11000  -100 11000	3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8 barometric pressure sensor 8 l. Barometric pressure value in mbar 9 l. Barometric pressure value in mbar 1. Barometric pressure value in mbar 2. Pressure altitude in meters (absolute) 3. Current flight altitude in m (zero reference is the altitude were ECU was powered up) 4. Maximum flight altitude reached since ECU power up (zero reference is the altitude were ECU was powered up) 5. Temperature value reported by barometric sensor 3 01023 1 1 1 2 2 2 3 01023 2 3 01023 2 1 2 3 01023 2 1 3 1 2 3 1	1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8 barometric pressure sensor 8 barometric pressure sensor 9 1. Dummy parameter to initiate transfer 1 → ECU sends in handshake: 1. Barometric pressure value in mbar 2. Pressure altitude in meters (absolute) 3. Current flight altitude in m (zero reference is the altitude were ECU was powered up) 4. Maximum flight altitude reached since ECU power up (zero reference is the altitude outlined of the altitude were ECU was powered up) 5. Temperature value reported by barometric sensor -30+60
d on engines which do have T0 temperature sensors . In case there is no T0 sensor present a value of -100 rameter is available only on firmware 12.49 or higher.  tiate transfer : n text string	RSS Read system status  1. Dummy parameter to initiate transfer  ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8	Dummy parameter (always read as 1)  Off-Condition  Actual Flight Speed  Aproportional part of Speed regulator  AD-value of Airspeed input  AD-Zero value of Airspeed input  AD-Zero value of Airspeed input  Dummy parameter to initiate transfer  ECU sends in handshake:  1. Dummy parameter to initiate transfer  ECU sends in handshake:  1. Barometric pressure sensor  1. Barometric pressure value in mbar  2. Pressure altitude in meters (absolute)  3. Current flight altitude in meters (absolute)  4. Maximum flight altitude reached since ECU power up (zero reference is the altitude outlined in the littude were ECU was powered up)  A Maximum flight altitude reached since ECU power up (zero reference is the altitude outlined in the littude were ECU was powered up)	RSS Read system status  1. Dummy parameter to initiate transfer  ⇒ ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8 Read values from barometric pressure sensor  Firmware 12.45 or higher required!  1. Barometric pressure value in mbar 2. Pressure altitude in meters (absolute) 3. Current flight altitude reached since ECU power up (zero reference is the altitude omit omitiate transfer to initiate transfer to initiat	3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8 barometric pressure sensor 8 barometric pressure sensor 9 1. Barometric pressure value in mbar 1. Barometric pressure value in mbar 2. Pressure altitude in meters (absolute) 3. Current flight altitude in m (zero reference is the altitude were ECU was powered up) 4. Maximum flight altitude reached since ECU power up (zero reference is the altitude o1000	1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8 barometric pressure sensor 8 barometric pressure sensor 9 ECU sends in handshake: 1. Barometric pressure value in mbar 2. Pressure altitude in meters (absolute) 3. Current flight altitude in m (zero reference is the altitude were ECU was powered up) 4. Maximum flight altitude reached since ECU power up (zero reference is the altitude 01000 11000 11000 11000 11000
re (inlet temperature in front of compressor). This don engines which do have T0 temperature sensors. In case there is no T0 sensor present a value of -100 rameter is available only on firmware 12.49 or higher. tiate transfer:  n text string	RSS  Read system status  1. Dummy parameter to initiate transfer  ⇒ ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8 ⇒ ECU sends in handshake:  1. Dummy parameter to initiate transfer  ⇒ ECU sends in handshake:  1. Barometric pressure sensor  1. Barometric pressure value in mbar 2. Pressure altitude in meters (absolute) 3. Current flight altitude in m (zero reference is the altitude were ECU was powered up) 4. Maximum flight altitude reached since ECU power up (zero reference is the 011000	Dummy parameter (always read as 1)  1. Dummy parameter (always read as 1)  2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8 barometric pressure sensor 8 barometric pressure sensor 9 barometric pressure sensor 1. Barometric pressure value in mbar 2. Pressure altitude in meters (absolute) 3. Current flight altitude in m (zero reference is the altitude were ECU was powered up) 4. Maximum flight altitude reached since ECU power up (zero reference is the 011000	RSS Read system status  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8	3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8 barometric pressure sensor 8 barometric pressure sensor 9 1. Barometric pressure value in mbar 1. Barometric pressure value in mbar 2. Pressure altitude in meters (absolute) 3. Current flight altitude in m (zero reference is the altitude were ECU was powered up) 4. Maximum flight altitude reached since ECU power up (zero reference is the 011000	1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8 barometric pressure sensor 8 barometric pressure sensor 9 c
re (inlet temperature in front of compressor). This don engines which do have T0 temperature sensors. In case there is no T0 sensor present a value of -100 rameter is available only on firmware 12.49 or higher. tiate transfer:  n text string	RSS  Read system status  1. Dummy parameter to initiate transfer  ⇒ ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8 ⇒ ECU sends in handshake:  1. Dummy parameter to initiate transfer  ⇒ ECU sends in handshake:  1. Barometric pressure sensor  1. Barometric pressure value in mbar 2. Pressure altitude in meters (absolute) 3. Current flight altitude in m (zero reference is the altitude were ECU was powered up) 4. Maximum flight altitude reached since ECU power up (zero reference is the 011000	Dummy parameter (always read as 1)  1. Dummy parameter (always read as 1)  2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8 barometric pressure sensor 8 barometric pressure sensor 9 barometric pressure sensor 1. Barometric pressure value in mbar 2. Pressure altitude in meters (absolute) 3. Current flight altitude in m (zero reference is the altitude were ECU was powered up) 4. Maximum flight altitude reached since ECU power up (zero reference is the 011000	RSS Read system status  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8	3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8 barometric pressure sensor 8 barometric pressure sensor 9 1. Barometric pressure value in mbar 1. Barometric pressure value in mbar 2. Pressure altitude in meters (absolute) 3. Current flight altitude in m (zero reference is the altitude were ECU was powered up) 4. Maximum flight altitude reached since ECU power up (zero reference is the 011000	1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8 barometric pressure sensor 8 barometric pressure sensor 9 c
ported by barometric sensor  re (inlet temperature in front of compressor). This d on engines which do have T0 temperature sensors . In case there is no T0 sensor present a value of -100 rameter is available only on firmware 12.49 or higher.  tiate transfer : n text string	RSS  Read system status  1. Dummy parameter to initiate transfer  ECU sends in handshake:  1. Dummy parameter (always read as 1)  2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer  barometric pressure sensor  1. Dummy parameter to initiate transfer  ECU sends in handshake:  1. Dummy parameter to initiate transfer  ECU sends in handshake:  1. Barometric pressure value in mbar 2. Pressure altitude in meters (absolute) 3. Current flight altitude in m (zero reference is the altitude were ECU was powered up)  2. Pressure altitude in m (zero reference is the altitude were ECU was powered up)	The properties of the propert	RSS  Read system status  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter (always read as 1)  2. Off-Condition  3. Actual Flight Speed  4. Proportional part of Speed regulator  5. AD-value of Airspeed input  6. AD-Zero value of Airspeed input  7. Dummy parameter to initiate transfer  ⇒ ECU sends in handshake:  1. Dummy parameter to initiate transfer  ⇒ ECU sends in handshake:  1. Barometric pressure sensor  1. Barometric pressure value in mbar  2. Pressure altitude in meters (absolute)  3. Current flight altitude in m (zero reference is the altitude were ECU was powered up)	3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8 barometric pressure sensor 8 barometric pressure sensor 9 1. Barometric pressure value in mbar 1. Barometric pressure value in mbar 2. Pressure altitude in meters (absolute) 3. Current flight altitude in m (zero reference is the altitude were ECU was powered up) 4 . Dummy parameter to initiate transfer  3 0 1023 1 2 3 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8. Barometric pressure sensor 8. Barometric pressure value in mbar 9. ECU sends in handshake: 9. Pressure altitude in meters (absolute) 9. Current flight altitude in m (zero reference is the altitude were ECU was powered up) 9. Current flight altitude in m (zero reference is the altitude were ECU was powered up) 9. Current flight altitude in m (zero reference is the altitude were ECU was powered up)
s powered up) ported by barometric sensor re (inlet temperature in front of compressor). This d on engines which do have T0 temperature sensors . In case there is no T0 sensor present a value of -100 rameter is available only on firmware 12.49 or higher.  tiate transfer : n text string	RSS Read system status  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8 barometric pressure sensor  1. Dummy parameter to initiate transfer 9 ECU sends in handshake:  1. Dummy parameter to initiate transfer 9 ECU sends in handshake:  1. Dummy parameter to initiate transfer 9 ECU sends in handshake:  1. Dummy parameter to initiate transfer 9 ECU sends in handshake:  1. Dummy parameter to initiate transfer 9 ECU sends in handshake:  1. Dummy parameter to initiate transfer 9 ECU sends in handshake:  1. Dummy parameter to initiate transfer 9 ECU sends in handshake:  1. Dummy parameter to initiate transfer 9 ECU sends in handshake:  1. Dummy parameter to initiate transfer 9 ECU sends in handshake:  1. Dummy parameter to initiate transfer 9 ECU sends in handshake:  1. Dummy parameter to initiate transfer 9 ECU sends in handshake:  1. Dummy parameter to initiate transfer 9 ECU sends in handshake:  1. Dummy parameter to initiate transfer 9 ECU sends in handshake:  1. Dummy parameter to initiate transfer 9 ECU sends in handshake:  1. Dummy parameter to initiate transfer 9 ECU sends in handshake: 1. Dummy parameter to initiate transfer	The properties of the propert	RSS Read system status  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8	3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8 barometric pressure sensor 9 1. Dummy parameter to initiate transfer 9 ⇒ ECU sends in handshake: 1. Barometric pressure value in mbar 1. Barometric pressure value in mbar 2. Pressure altitude in meters (absolute) 3. Current flight altitude in m (zero reference is the altitude were ECU was 1. 10001000	1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8 barometric pressure sensor 9 barometric pressure sensor 1. Barometric pressure value in mbar 1. Dummy parameter to initiate transfer 3001100 2. Pressure altitude in meters (absolute) 3. Current flight altitude in m (zero reference is the altitude were ECU was -100 11000
s powered up) ported by barometric sensor re (inlet temperature in front of compressor). This d on engines which do have T0 temperature sensors . In case there is no T0 sensor present a value of -100 rameter is available only on firmware 12.49 or higher.  tiate transfer : n text string	RSS Read system status  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8 barometric pressure sensor  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Barometric pressure value in mbar 2. Pressure altitude in meters (absolute)  3. Actual Flight Speed 9 500 km/h 9 1023 9 1023 9 1023 9 1000 9 1000	→ ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8 barometric pressure sensor 8 ECU sends in handshake: 9 ECU sends in handshake: 1. Barometric pressure value in mbar 2. Pressure altitude in meters (absolute) 3 042 (see Table) 042 (see Table) 042 (see Table) 0500 km/h 1. Dumsy parameter to initiate transfer 3 01023	RSS Read system status  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8 barometric pressure sensor  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Barometric pressure value in mbar 2. Pressure altitude in meters (absolute)  3. Actual Flight Speed 9 500 km/h 9 1023 9	3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8 barometric pressure sensor 9 barometric pressure sensor 1. Barometric pressure value in mbar 1. Barometric pressure value in mbar 2. Pressure altitude in meters (absolute) 3. Actual Flight Speed 0 500 km/h 1. 1023 1. 1023 1. 1023 1. 2001023	1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8. Barometric pressure sensor 9. Barometric pressure value in mbar 1. Barometric pressure value in mbar 2. Pressure altitude in meters (absolute) 1. Dummy parameter to initiate transfer 3001100 -50011000
s powered up) ported by barometric sensor ire (inlet temperature in front of compressor). This d on engines which do have T0 temperature sensors . In case there is no T0 sensor present a value of -100 irameter is available only on firmware 12.49 or higher.  tiate transfer : in text string	RSS Read system status  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8 barometric pressure sensor  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Barometric pressure value in mbar 2. Pressure altitude in meters (absolute)  1. Dummy parameter to initiate transfer 3001100 -50011000	→ ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8 barometric pressure sensor 9 ECU sends in handshake: 1. Dummy parameter to initiate transfer 2. Pressure altitude in meters (absolute) 3. Actual Flight Speed 9 500 km/h 9 1023 9 1023 9 1023 9 1000	RSS Read system status  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8 barometric pressure sensor  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Barometric pressure value in mbar 2. Pressure altitude in meters (absolute)  1. Dummy parameter to initiate transfer 3001100 -50011000	3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8 barometric pressure sensor 9 barometric pressure sensor 1. Barometric pressure value in mbar 1. Barometric pressure value in mbar 2. Pressure altitude in meters (absolute) 3. Actual Flight Speed 0 500 km/h 1. 1023 1. 1023 1. 1023 1. 2001023	1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8 barometric pressure sensor 9 barometric pressure sensor 1. Barometric pressure value in mbar 1. Dummy parameter to initiate transfer 3001100 -50011000
and e reached since ECU power up (zero reference is the s powered up)  sported by barometric sensor are (inlet temperature in front of compressor). This don engines which do have T0 temperature sensors. In case there is no T0 sensor present a value of -100 arameter is available only on firmware 12.49 or higher.  tiate transfer  in text string	RSS Read system status  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 7. → ECU sends in handshake:  1. Dummy parameter to initiate transfer 7. → ECU sends in handshake:  1. Barometric pressure value in mbar  3001100	→ ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8 barometric pressure sensor 9 ECU sends in handshake: 1. Barometric pressure value in mbar 9 ECU sends in handshake: 3001100	RSS Read system status  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8 Read values from barometric pressure sensor  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Barometric pressure value in mbar  3001100	3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8 barometric pressure sensor 9 barometric pressure sensor 1. Barometric pressure value in mbar 3001100	1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8. Bead values from barometric pressure sensor 9. Dummy parameter to initiate transfer 9. ECU sends in handshake: 1. Barometric pressure value in mbar 9. 3001100
and e reached since ECU power up (zero reference is the s powered up)  Approved by barometric sensor are (inlet temperature in front of compressor). This don engines which do have T0 temperature sensors.  In case there is no T0 sensor present a value of -100 arameter is available only on firmware 12.49 or higher.  It it tate transfer to the service of the service	RSS Read system status  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8. Dummy parameter to initiate transfer 9. ECU sends in handshake:  1. Dummy parameter to initiate transfer 9. ECU sends in handshake:	→ ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8 ⇒ ECU sends in handshake:  1. Dummy parameter to initiate transfer 7. ⇒ ECU sends in handshake:	RSS Read system status  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8. Dummy parameter to initiate transfer 9. ECU sends in handshake:  1. Dummy parameter to initiate transfer 9. ECU sends in handshake:	3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input  RPR Read values from barometric pressure sensor  3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer → ECU sends in handshake: 1	1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter (always read as 1) 8. Actual Flight Speed 9 500 km/h 9 1023 9 1023 1. Dummy parameter to initiate transfer 1. Dummy parameter to initiate transfer 3. ECU sends in handshake: 9. ECU sends in handshake:
in m (zero reference is the altitude were ECU was  de reached since ECU power up (zero reference is the spowered up) ported by barometric sensor (inlet temperature in front of compressor). This don engines which do have T0 temperature sensors. In case there is no T0 sensor present a value of -100 rameter is available only on firmware 12.49 or higher.  tiate transfer  in text string	RSS Read system status  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8. Dummy parameter to initiate transfer 9. ECU sends in handshake:	→ ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8	RSS Read system status  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8. Dummy parameter to initiate transfer 9. ECU sends in handshake:	3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input  PRPR Read values from barometric pressure  3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer → ECU sends in handshake: 1	1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 8
reters (absolute)  in m (zero reference is the altitude were ECU was  inde reached since ECU power up (zero reference is the spowered up)  prorted by barometric sensor  ire (inlet temperature in front of compressor). This don engines which do have T0 temperature sensors.  In case there is no T0 sensor present a value of -100 rameter is available only on firmware 12.49 or higher.  itiate transfer  in text string	RSS Read system status  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 7. Read values from 7. Dummy parameter to initiate transfer 9. Table 1. Dummy parameter to initiate transfer 9. AD-Value of Airspeed input 9	→ ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer	RSS Read system status  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 7. Read values from 7. Dummy parameter to initiate transfer 9. Table 1. Dummy parameter to initiate transfer 9. AD-Value of Airspeed input 9	3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input  RPR Read values from  3. Actual Flight Speed 9 500 km/h 9 1023 9 1023 9 1023	1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 7. Read values from 7. Dummy parameter to initiate transfer
reters (absolute) -50011000 -100 11000	RSS Read system status  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 7. Read values from 7. Dummy parameter to initiate transfer 9. Table 1. Dummy parameter to initiate transfer	→ ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. PRPR Read values from 7. Dummy parameter to initiate transfer 7. Dummy parameter to initiate transfer 7. Dummy parameter to initiate transfer	RSS Read system status  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 7. Read values from 7. Dummy parameter to initiate transfer 9. Table 1. Dummy parameter to initiate transfer	3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input  RPR Read values from  3. Actual Flight Speed 9 500 km/h 9 1023 9 1023 9 1023	1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 7. Read values from 7. Dummy parameter to initiate transfer
reters (absolute)  in m (zero reference is the altitude were ECU was  inde reached since ECU power up (zero reference is the spowered up)  prorted by barometric sensor  ire (inlet temperature in front of compressor). This don engines which do have T0 temperature sensors.  In case there is no T0 sensor present a value of -100 rameter is available only on firmware 12.49 or higher.  itiate transfer  in text string	RSS Read system status  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter (always read as 1) 9. 42 (see Table) 9500 km/h 91023 91023	→ ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter (always read as 1) 942 (see Table) 9500 km/h	RSS Read system status  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter (always read as 1) 9. 42 (see Table) 9500 km/h 91023 91023	3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 91023 91023	1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter (always read as 1) 942 (see Table) 9500 km/h 9500 km/h 91023
reters (absolute) -50011000 -100 11000 -100 11000 -100 11000 -100 11000 -100 11000 -100 11000 -100 11000 -100 11000 -100 11000 -100 11000 -30+60 -70.0 +100.0 -70.0 +100.0 -70.0 +100.0 -70.0 +100.0 -70.0 +100.0 -70.0 +100.0 -70.0 +100.0 -70.0 +100.0 -70.0 +100.0 -70.0 +100.0 -70.0 +100.0	RSS Read system status  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 7. Read values from 7. Dummy parameter to initiate transfer 7. Dummy parameter to initiate transfer 7. Dummy parameter to initiate transfer 8. Read values from 9. Lummy parameter to initiate transfer	→ ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer	RSS Read system status  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer 7. Read values from 7. Dummy parameter to initiate transfer 7. Dummy parameter to initiate transfer 7. Dummy parameter to initiate transfer 8. Read values from 9. Lummy parameter to initiate transfer	3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input  RPR Read values from  3. Actual Flight Speed 9 500 km/h 9 1023 9 1023 9 1023	1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter to initiate transfer
ralue in mbar neters (absolute) nin m (zero reference is the altitude were ECU was  ride reached since ECU power up (zero reference is the spowered up) prorted by barometric sensor are (inlet temperature in front of compressor). This don engines which do have T0 temperature sensors. In case there is no T0 sensor present a value of -100 rrameter is available only on firmware 12.49 or higher.  1  1  3001100 -50011000 011000 011000 011000 011000 011000 011000 111000 111000 1.	RSS Read system status  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter (always read as 1) 942 (see Table) 9500 km/h 91023 91023	→ ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter (always read as 1) 942 (see Table) 9500 km/h	RSS Read system status  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter (always read as 1) 942 (see Table) 9500 km/h 91023 91023	3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 91023 91023	1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 6. AD-Zero value of Airspeed input 7. Dummy parameter (always read as 1) 8. 042 (see Table) 9500 km/h 9500 km/h 91023
value in mbar neters (absolute) nin m (zero reference is the altitude were ECU was  ride reached since ECU power up (zero reference is the spowered up) prorted by barometric sensor are (inlet temperature in front of compressor). This don engines which do have T0 temperature sensors. In case there is no T0 sensor present a value of -100 rameter is available only on firmware 12.49 or higher.  1  1  1001100 -50011000 -100 11000 -30+60 -70.0 +100.0 -70.0 +100.0	RSS Read system status  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input  1. Dummy parameter (always read as 1) 042 (see Table) 0500 km/h 01023	→ ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input  1 042 (see Table) 0 500 km/h 0 1023	RSS Read system status  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input  1. Dummy parameter (always read as 1) 042 (see Table) 0500 km/h 01023	3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 0 500 km/h 0 1023	1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 1 042 (see Table) 0 500 km/h 4. 0 500 km/h 0 1023
adue in mbar  reters (absolute)  rin m (zero reference is the altitude were ECU was  ride reached since ECU power up (zero reference is the spowered up)  reported by barometric sensor  re (inlet temperature in front of compressor). This d on engines which do have T0 temperature sensors  In case there is no T0 sensor present a value of -100 rameter is available only on firmware 12.49 or higher.	RSS Read system status  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input  1  042 (see Table) 0 500 km/h 0 1023	→ ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input  1 042 (see Table) 0 500 km/h 0 500 km/h	RSS Read system status  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input  1  042 (see Table) 0 500 km/h 0 1023	3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 0 500 km/h 0 1023	1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 1 042 (see Table) 0500 km/h 4. 0500 km/h 01023
adue in mbar  reters (absolute)  rin m (zero reference is the altitude were ECU was  ride reached since ECU power up (zero reference is the spowered up)  reported by barometric sensor  re (inlet temperature in front of compressor). This d on engines which do have T0 temperature sensors  In case there is no T0 sensor present a value of -100 rameter is available only on firmware 12.49 or higher.	RSS Read system status  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input  1. Dummy parameter (always read as 1) 042 (see Table) 0500 km/h 01023	→ ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input  1 042 (see Table) 0 500 km/h 0 500 km/h	RSS Read system status  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input  1. Dummy parameter (always read as 1) 042 (see Table) 0500 km/h 01023	3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 0 500 km/h 0 1023	1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator 5. AD-value of Airspeed input 1 042 (see Table) 0 500 km/h 0 500 km/h
titate transfer :  ralue in mbar neters (absolute) in m (zero reference is the altitude were ECU was  ride reached since ECU power up (zero reference is the spowered up) prorted by barometric sensor are (inlet temperature in front of compressor). This don engines which do have T0 temperature sensors . In case there is no T0 sensor present a value of -100 rrameter is available only on firmware 12.49 or higher.  titate transfer :  n text string	RSS Read system status  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator	→ ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator	RSS Read system status  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator	3. Actual Flight Speed 4. Proportional part of Speed regulator	1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 4. Proportional part of Speed regulator
titate transfer  trailue in mbar seters (absolute) sin m (zero reference is the altitude were ECU was  de reached since ECU power up (zero reference is the spowered up) sported by barometric sensor sere (inlet temperature in front of compressor). This don engines which do have T0 temperature sensors In case there is no T0 sensor present a value of -100 rameter is available only on firmware 12.49 or higher.	RSS Read system status  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed  1  042 (see Table) 0 500 km/h	→ ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed  3. Actual Flight Speed	RSS Read system status  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed  1  042 (see Table) 0 500 km/h	3. Actual Flight Speed 0 500 km/h	1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 1 1 042 (see Table) 0 500 km/h
input peed input  01023  01023  citate transfer  itate transfer  itate in mbar peets (absolute) in m (zero reference is the altitude were ECU was  deterached since ECU power up (zero reference is the spowered up) prorted by barometric sensor pre (inlet temperature in front of compressor). This don engines which do have T0 temperature sensors In case there is no T0 sensor present a value of -100 rameter is available only on firmware 12.49 or higher.	RSS Read system status  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter (always read as 1)  2. Off-Condition  1 042 (see Table)	<ul> <li>→ ECU sends in handshake:</li> <li>1. Dummy parameter (always read as 1)</li> <li>2. Off-Condition</li> <li>1</li> <li>042 (see Table)</li> </ul>	RSS Read system status  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition  1 042 (see Table)		1. Dummy parameter (always read as 1) 2. Off-Condition 1 042 (see Table)
peed regulator input peed input  0 1023 01023  citate transfer :  ralue in mbar neters (absolute) in m (zero reference is the altitude were ECU was  deterached since ECU power up (zero reference is the spowered up) prorted by barometric sensor are (inlet temperature in front of compressor). This d on engines which do have T0 temperature sensors . In case there is no T0 sensor present a value of -100 rameter is available only on firmware 12.49 or higher.	RSS Read system status  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter (always read as 1)  1	→ ECU sends in handshake:  1. Dummy parameter (always read as 1)  1	RSS Read system status  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter (always read as 1)  1		1. Dummy parameter (always read as 1) 1
peed regulator input 0 1023 01023 11023 01023 11000 11000	RSS Read system status  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1  1	→ ECU sends in handshake:	RSS Read system status  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1  1		
042 (see Table) 0 500 km/h  1 1023 01023 1 1023 1 1023 1 1023 1 1023 1 1023 1 1023 1 1023 1 1023 1 1023 1 1023 1 1023 1 1023 1 1023 1 100 1 1000 1 1000 1 1100	RSS Read system status 1. Dummy parameter to initiate transfer 1	, , , , , , , , , , , , , , , , , , ,	RSS Read system status 1. Dummy parameter to initiate transfer 1	1. Dummy parameter (always read as 1)	7 ECO SENUS III Nanusnake.
042 (see Table) 0 500 km/h  peed regulator input peed input  0 1023 01023  titate transfer :  ralue in mbar seters (absolute) in m (zero reference is the altitude were ECU was  det erached since ECU power up (zero reference is the s powered up) ported by barometric sensor sere (inlet temperature in front of compressor). This d on engines which do have T0 temperature sensors . In case there is no T0 sensor present a value of -100 rameter is available only on firmware 12.49 or higher.  titate transfer :  n text string	RSS Read system status 1. Dummy parameter to initiate transfer 1	, , , , , , , , , , , , , , , , , , ,	RSS Read system status 1. Dummy parameter to initiate transfer 1		
Ilways read as 1)  I 042 (see Table) 0 500 km/h  Inpeed regulator input 0 1023 01023  Itiate transfer:  Iralue in mbar seters (absolute) -50011000 -50011000 -100 11000  In m (zero reference is the altitude were ECU was spowered up) prorted by barometric sensor regional information of compressor). This don engines which do have T0 temperature sensors In case there is no T0 sensor present a value of -100 rameter is available only on firmware 12.49 or higher.		RSS   Read system status   1. Dummy parameter to initiate transfer   1			
Ilways read as 1)  I 042 (see Table) 0 500 km/h  Inpeed regulator input 0 1023 01023  Itiate transfer:  Iralue in mbar reters (absolute)  In in m (zero reference is the altitude were ECU was responsed up)  Imported by barometric sensor received in the temperature in front of compressor). This don engines which do have T0 temperature sensors. In case there is no T0 sensor present a value of -100 rameter is available only on firmware 12.49 or higher.  Itiate transfer:  In text string	<del>1021</del>		CODE	→ ECU sends in handshake:	noo   nead system status   1. Dummy parameter to midate transfer
Ilways read as 1)  Il 042 (see Table) 0 500 km/h  Inpeed regulator input 0 1023 01023  Itiate transfer 1  Iralue in mbar Interest (absolute) 2. in m (zero reference is the altitude were ECU was in m (zero reference is the altitude were ECU was in m (zero reference is the spowered up)  Imported by barometric sensor 1. In case there is no T0 sensor present a value of -100 1. In case the total the total transfer 1. In case the tot	CODE			, , , , , , , , , , , , , , , , , , , ,	
Ilways read as 1)  Il 042 (see Table) 0 500 km/h  Inpeed regulator input 0 1023 01023  Itiate transfer 1  Iralue in mbar Interest (absolute) 2. in m (zero reference is the altitude were ECU was in m (zero reference is the altitude were ECU was in m (zero reference is the spowered up)  Imported by barometric sensor 1. In case there is no T0 sensor present a value of -100 1. In case the total the total transfer 1. In case the tot	CODE	CODE		, , , , , , , , , , , , , , , , , , , ,	PSS   Pond system status   1 Dummy parameter to initiate transfer   1
042 (see Table) 0 500 km/h  peed regulator input peed input  0 1023 01023  1 1003 0 1003 0 1000  ratue in mbar peeters (absolute) in m (zero reference is the altitude were ECU was  rich erached since ECU power up (zero reference is the spowered up) prorted by barometric sensor prof (inlet temperature in front of compressor). This don engines which do have T0 temperature sensors In case there is no T0 sensor present a value of -100 rameter is available only on firmware 12.49 or higher.	RSS Read system status 1. Dummy parameter to initiate transfer 1	, , , , , , , , , , , , , , , , , , ,	RSS Read system status 1. Dummy parameter to initiate transfer 1		The serious in Hamushake.
042 (see Table) 0 500 km/h  peed regulator input peed input  0 1023 01023  1 1003 0 1003 0 1000  ratue in mbar peeters (absolute) in m (zero reference is the altitude were ECU was  rich erached since ECU power up (zero reference is the spowered up) prorted by barometric sensor prof (inlet temperature in front of compressor). This don engines which do have T0 temperature sensors In case there is no T0 sensor present a value of -100 rameter is available only on firmware 12.49 or higher.	RSS Read system status 1. Dummy parameter to initiate transfer 1	, , , , , , , , , , , , , , , , , , ,	RSS Read system status 1. Dummy parameter to initiate transfer 1		
Ilways read as 1)  I 042 (see Table) 0 500 km/h  Inpeed regulator input 0 1023 01023  Itiate transfer :  Iralue in mbar reters (absolute) -50011000 -50011000 -100 11000  In m (zero reference is the altitude were ECU was spowered up) reported by barometric sensor received in temperature in front of compressor). This don engines which do have T0 temperature sensors In case there is no T0 sensor present a value of -100 rameter is available only on firmware 12.49 or higher.		RSS   Read system status   1. Dummy parameter to initiate transfer   1			7,00
Ilways read as 1)  I 042 (see Table) 0 500 km/h  Inpeed regulator input 0 1023 01023  Itiate transfer:  Iralue in mbar reters (absolute)  In in m (zero reference is the altitude were ECU was responsed up)  Imported by barometric sensor received in the temperature in front of compressor). This don engines which do have T0 temperature sensors. In case there is no T0 sensor present a value of -100 rameter is available only on firmware 12.49 or higher.  Itiate transfer:  In text string				→ ECU sends in handshake:	7,00
Ilways read as 1)  I 042 (see Table) 0 500 km/h  Inpeed regulator input 0 1023 01023  Itiate transfer:  Iralue in mbar reters (absolute)  In in m (zero reference is the altitude were ECU was responsed up)  Inported by barometric sensor received in front of compressor). This don engines which do have T0 temperature sensors.  In case there is no T0 sensor present a value of -100 rameter is available only on firmware 12.49 or higher.  Itiate transfer:  In text string	· · · · · · · · · · · · · · · · · · ·		CODE	→ ECU sends in handshake:	Read system status 1. Dunning parameter to initiate transfer
042 (see Table) 0 500 km/h  peed regulator input peed input  0 1023 01023  titate transfer :  ralue in mbar seters (absolute) in m (zero reference is the altitude were ECU was  det erached since ECU power up (zero reference is the s powered up) ported by barometric sensor sere (inlet temperature in front of compressor). This d on engines which do have T0 temperature sensors . In case there is no T0 sensor present a value of -100 rameter is available only on firmware 12.49 or higher.  titate transfer :  n text string	RSS Read system status 1. Dummy parameter to initiate transfer 1	, , , , , , , , , , , , , , , , , , ,	RSS Read system status 1. Dummy parameter to initiate transfer 1		→ ECU cands in handshaker
042 (see Table) 0 500 km/h  1 1023 01023 1 1023 1 1023 1 1023 1 1023 1 1023 1 1023 1 1023 1 1023 1 1023 1 1023 1 1023 1 1023 1 1023 1 100 1 1000 1 1000 1 1100	RSS Read system status 1. Dummy parameter to initiate transfer 1	, , , , , , , , , , , , , , , , , , ,	RSS Read system status 1. Dummy parameter to initiate transfer 1		
042 (see Table) 0 500 km/h  1 1023 01023 1 1023 1 1023 1 1023 1 1023 1 1023 1 1023 1 1023 1 1023 1 1023 1 1023 1 1023 1 1023 1 1023 1 100 1 1000 1 1000 1 1100	RSS Read system status 1. Dummy parameter to initiate transfer 1	, , , , , , , , , , , , , , , , , , ,	RSS Read system status 1. Dummy parameter to initiate transfer 1		
042 (see Table) 0 500 km/h  1 1023 01023 1 1023 1 1023 1 1023 1 1023 1 1023 1 1023 1 1023 1 1023 1 1023 1 1023 1 1023 1 1023 1 1023 1 100 1 1000 1 1000 1 1100	RSS Read system status 1. Dummy parameter to initiate transfer 1	, , , , , , , , , , , , , , , , , , ,	RSS Read system status 1. Dummy parameter to initiate transfer 1		
042 (see Table) 0 500 km/h  1 1023 01023 1 1023 1 1023 1 1023 1 1023 1 1023 1 1023 1 1023 1 1023 1 1023 1 1023 1 1023 1 1023 1 1023 1 100 1 1000 1 1000 1 1100	RSS Read system status 1. Dummy parameter to initiate transfer 1	, , , , , , , , , , , , , , , , , , ,	RSS Read system status 1. Dummy parameter to initiate transfer 1		
042 (see Table) 0 500 km/h  peed regulator input peed input  0 1023 01023  titate transfer :  ralue in mbar seters (absolute) in m (zero reference is the altitude were ECU was  det erached since ECU power up (zero reference is the s powered up) ported by barometric sensor sere (inlet temperature in front of compressor). This d on engines which do have T0 temperature sensors . In case there is no T0 sensor present a value of -100 rameter is available only on firmware 12.49 or higher.  titate transfer :  n text string	RSS Read system status 1. Dummy parameter to initiate transfer 1	, , , , , , , , , , , , , , , , , , ,	RSS Read system status 1. Dummy parameter to initiate transfer 1		7 ECO Serius III Hanushake.
042 (see Table) 0 500 km/h  1 1023 01023 1 1023 1 1023 1 1023 1 1023 1 1023 1 1023 1 1023 1 1023 1 1023 1 1023 1 1023 1 1023 1 1023 1 100 1 1000 1 1000 1 1100	RSS Read system status 1. Dummy parameter to initiate transfer 1	, , , , , , , , , , , , , , , , , , ,	RSS Read system status 1. Dummy parameter to initiate transfer 1	1. Dummy parameter (always read as 1)	7 ECO SERIOS III HARIOSHARE.
042 (see Table) 0 500 km/h  peed regulator input peed input  0 1023 01023  1 1003 0 1000  and eters (absolute) in m (zero reference is the altitude were ECU was  and eters (absolute) in m (zero reference is the altitude were ECU was  and eterached since ECU power up (zero reference is the spowered up) prorted by barometric sensor are (inlet temperature in front of compressor). This d on engines which do have T0 temperature sensors and in case there is no T0 sensor present a value of -100 arameter is available only on firmware 12.49 or higher.  and 1 10 1003 0 1000 -500 11000 -100 11000 -30 +60 -70.0 +100.0 -70.0 +100.0	RSS Read system status 1. Dummy parameter to initiate transfer 1	, , , , , , , , , , , , , , , , , , ,	RSS Read system status 1. Dummy parameter to initiate transfer 1		7 ECO Serius III Hallushake.
042 (see Table) 0 500 km/h  peed regulator input peed input  0 1023 01023  1 1003 0 1003 0 1000  ratue in mbar peeters (absolute) in m (zero reference is the altitude were ECU was  rich erached since ECU power up (zero reference is the spowered up) prorted by barometric sensor prof (inlet temperature in front of compressor). This don engines which do have T0 temperature sensors In case there is no T0 sensor present a value of -100 rameter is available only on firmware 12.49 or higher.	RSS Read system status 1. Dummy parameter to initiate transfer 1	, , , , , , , , , , , , , , , , , , ,	RSS Read system status 1. Dummy parameter to initiate transfer 1		7 ECO SENUS III Hanushake.
042 (see Table) 0 500 km/h  peed regulator input peed input  0 1023 01023  1 1003 0 1000  and eters (absolute) in m (zero reference is the altitude were ECU was  and eters (absolute) in m (zero reference is the altitude were ECU was  and eterached since ECU power up (zero reference is the spowered up) prorted by barometric sensor are (inlet temperature in front of compressor). This d on engines which do have T0 temperature sensors and in case there is no T0 sensor present a value of -100 arameter is available only on firmware 12.49 or higher.  and 1 10 1003 0 1000 -500 11000 -100 11000 -30 +60 -70.0 +100.0 -70.0 +100.0	RSS Read system status 1. Dummy parameter to initiate transfer 1	, , , , , , , , , , , , , , , , , , ,	RSS Read system status 1. Dummy parameter to initiate transfer 1		
Ilways read as 1)  I 042 (see Table) 0 500 km/h  Inpeed regulator input 0 1023 01023  Itiate transfer :  Iralue in mbar reters (absolute) -50011000 -50011000 -100 11000  In m (zero reference is the altitude were ECU was spowered up) reported by barometric sensor received in temperature in front of compressor). This don engines which do have T0 temperature sensors In case there is no T0 sensor present a value of -100 rameter is available only on firmware 12.49 or higher.		RSS   Read system status   1. Dummy parameter to initiate transfer   1			-> ECU conde in handchake:
Ilways read as 1)  I 042 (see Table) 0 500 km/h  Inpeed regulator input 0 1023 01023  Itiate transfer :  Iralue in mbar reters (absolute) -50011000 -50011000 -100 11000  In m (zero reference is the altitude were ECU was spowered up) reported by barometric sensor received in temperature in front of compressor). This don engines which do have T0 temperature sensors In case there is no T0 sensor present a value of -100 rameter is available only on firmware 12.49 or higher.		RSS   Read system status   1. Dummy parameter to initiate transfer   1		7 EG Sends III Indiasnake.	-> ECU conde in handchake:
042 (see Table) 0 500 km/h  1 1023 01023 1 1023 1 1023 1 1023 1 1023 1 1023 1 1023 1 1023 1 1023 1 1023 1 1023 1 1023 1 1023 1 1023 1 100 1 1000 1 1000 1 1100	RSS Read system status 1. Dummy parameter to initiate transfer 1	, , , , , , , , , , , , , , , , , , ,	RSS Read system status 1. Dummy parameter to initiate transfer 1		
042 (see Table) 0 500 km/h  1 1023 01023 1 1023 1 1023 1 1023 1 1023 1 1023 1 1023 1 1023 1 1023 1 1023 1 1023 1 1023 1 1023 1 1023 1 100 1 1000 1 1000 1 1100	RSS Read system status 1. Dummy parameter to initiate transfer 1	, , , , , , , , , , , , , , , , , , ,	RSS Read system status 1. Dummy parameter to initiate transfer 1		7 ECO SERIOS III RATIOSTIANE.
042 (see Table) 0 500 km/h  peed regulator input peed input  0 1023 01023  1 1003 0 1003 0 1000  ratue in mbar peeters (absolute) in m (zero reference is the altitude were ECU was  rich erached since ECU power up (zero reference is the spowered up) prorted by barometric sensor prof (inlet temperature in front of compressor). This don engines which do have T0 temperature sensors In case there is no T0 sensor present a value of -100 rameter is available only on firmware 12.49 or higher.	RSS Read system status 1. Dummy parameter to initiate transfer 1	, , , , , , , , , , , , , , , , , , ,	RSS Read system status 1. Dummy parameter to initiate transfer 1	1. Dummy parameter (always read as 1)	7 ECO SENUS III Nanusnake.
042 (see Table) 0 500 km/h  peed regulator input peed input  0 1023 01023  1 1003 0 1000  and eters (absolute) in m (zero reference is the altitude were ECU was  and eters (absolute) in m (zero reference is the altitude were ECU was  and eterached since ECU power up (zero reference is the spowered up) prorted by barometric sensor are (inlet temperature in front of compressor). This d on engines which do have T0 temperature sensors and in case there is no T0 sensor present a value of -100 arameter is available only on firmware 12.49 or higher.  and 1 10 1003 0 1000 -500 11000 -100 11000 -30 +60 -70.0 +100.0 -70.0 +100.0	RSS Read system status 1. Dummy parameter to initiate transfer 1	, , , , , , , , , , , , , , , , , , ,	RSS Read system status 1. Dummy parameter to initiate transfer 1		7 ECO Serius III Hariushake.
out of the component of	RSS Read system status 1. Dummy parameter to initiate transfer 1	, , , , , , , , , , , , , , , , , , ,	RSS Read system status 1. Dummy parameter to initiate transfer 1		
ou.42 (see Table)  ou. 500 km/h  ou. 1023  ou.1023  tiate transfer  tralue in mbar eleters (absolute) in m (zero reference is the altitude were ECU was  deterached since ECU power up (zero reference is the spowered up) prorted by barometric sensor our (inlet temperature in front of compressor). This do no engines which do have T0 temperature sensors  In case there is no T0 sensor present a value of -100 orameter is available only on firmware 12.49 or higher.	RSS Read system status 1. Dummy parameter to initiate transfer 1	, , , , , , , , , , , , , , , , , , ,	RSS Read system status 1. Dummy parameter to initiate transfer 1		-> ECU conde in handshaker
out of the component of	RSS Read system status 1. Dummy parameter to initiate transfer 1	, , , , , , , , , , , , , , , , , , ,	RSS Read system status 1. Dummy parameter to initiate transfer 1	·	7 ECO SERIOS III HARIUSHARE.
peed regulator input peed input  titate transfer :  ralue in mbar eteters (absolute) in m (zero reference is the altitude were ECU was  ride reached since ECU power up (zero reference is the spowered up) prorted by barometric sensor are (inlet temperature in front of compressor). This d on engines which do have T0 temperature sensors . In case there is no T0 sensor present a value of -100 arameter is available only on firmware 12.49 or higher.  titate transfer :  n text string	RSS Read system status  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1  1	→ ECU sends in handshake:	RSS Read system status  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1  1		
peed regulator input peed input  titate transfer :  ralue in mbar eteters (absolute) in m (zero reference is the altitude were ECU was  ride reached since ECU power up (zero reference is the spowered up) prorted by barometric sensor are (inlet temperature in front of compressor). This d on engines which do have T0 temperature sensors . In case there is no T0 sensor present a value of -100 arameter is available only on firmware 12.49 or higher.  titate transfer :  n text string	RSS Read system status  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1  1	→ ECU sends in handshake:	RSS Read system status  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1  1		
o42 (see Table) o 500 km/h one of regulator input peed input  o 1023 o1023  titate transfer :  ralue in mbar eleters (absolute) in m (zero reference is the altitude were ECU was  order erached since ECU power up (zero reference is the spowered up) prorted by barometric sensor order (inlet temperature in front of compressor). This of on engines which do have T0 temperature sensors In case there is no T0 sensor present a value of -100 orameter is available only on firmware 12.49 or higher.  on text string	RSS Read system status  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1  1	→ ECU sends in handshake:	RSS Read system status  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1  1	1. Dummy parameter (always read as 1)	
ou.42 (see Table) ou. 500 km/h ou. 500 km/h ou. 1023 ou.1023  titate transfer :  ralue in mbar outers (absolute) ou in m (zero reference is the altitude were ECU was outer eached since ECU power up (zero reference is the spowered up) outered by barometric sensor our (inlet temperature in front of compressor). This do on engines which do have T0 temperature sensors our line case there is no T0 sensor present a value of -100 orameter is available only on firmware 12.49 or higher.	RSS Read system status 1. Dummy parameter to initiate transfer 1	7,111	RSS Read system status 1. Dummy parameter to initiate transfer 1	1 Dummy parameter Johnson road as 1)	7 ECO Serius III Ilailusilake.
o42 (see Table) o 500 km/h one of regulator input peed input  o 1023 o1023  titate transfer :  ralue in mbar eleters (absolute) in m (zero reference is the altitude were ECU was  indeerence is the altitude were ECU was  rate erached since ECU power up (zero reference is the spowered up) prorted by barometric sensor are (inlet temperature in front of compressor). This don engines which do have T0 temperature sensors . In case there is no T0 sensor present a value of -100 rameter is available only on firmware 12.49 or higher.  titate transfer :  n text string	RSS Read system status  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1  1	→ ECU sends in handshake:	RSS Read system status  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1	1. Dummy parameter (always read as 1)	
peed regulator input peed input  0 1023 01023  citate transfer :  ralue in mbar neters (absolute) in m (zero reference is the altitude were ECU was  deterached since ECU power up (zero reference is the spowered up) prorted by barometric sensor are (inlet temperature in front of compressor). This d on engines which do have T0 temperature sensors . In case there is no T0 sensor present a value of -100 rameter is available only on firmware 12.49 or higher.	RSS Read system status  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter (always read as 1)  1	→ ECU sends in handshake:  1. Dummy parameter (always read as 1)  1	RSS Read system status  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter (always read as 1)  1		1. Dummy parameter (always read as 1) 1
input peed input  01023  01023  citate transfer  citate transfer  in molecters (absolute)  citate transfer  citate erached since ECU power up (zero reference is the spowered up) proported by barometric sensor  citate transfer  in case there is no T0 sensor present a value of -100  crameter is available only on firmware 12.49 or higher.  in text string	RSS Read system status  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter (always read as 1)  2. Off-Condition  1 042 (see Table)	<ul> <li>→ ECU sends in handshake:</li> <li>1. Dummy parameter (always read as 1)</li> <li>2. Off-Condition</li> <li>1</li> <li>042 (see Table)</li> </ul>	RSS Read system status  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition  1 042 (see Table)		1. Dummy parameter (always read as 1) 2. Off-Condition 1 042 (see Table)
input peed input  01023  01023  citate transfer  itate transfer  itate in mbar peets (absolute) in m (zero reference is the altitude were ECU was  deterached since ECU power up (zero reference is the spowered up) prorted by barometric sensor pre (inlet temperature in front of compressor). This don engines which do have T0 temperature sensors In case there is no T0 sensor present a value of -100 rameter is available only on firmware 12.49 or higher.	RSS Read system status  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed  1  1  042 (see Table) 0 500 km/h	→ ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed  3. Actual Flight Speed	RSS Read system status  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed  1  042 (see Table) 0 500 km/h	3. Actual Flight Speed 0 500 km/h	1. Dummy parameter (always read as 1) 2. Off-Condition 3. Actual Flight Speed 1 1 042 (see Table) 0 500 km/h
input peed input  0 1023 01023  citate transfer :  ralue in mbar peets (absolute) in m (zero reference is the altitude were ECU was  deterached since ECU power up (zero reference is the spowered up) proported by barometric sensor pre (inlet temperature in front of compressor). This don engines which do have T0 temperature sensors In case there is no T0 sensor present a value of -100 prameter is available only on firmware 12.49 or higher.  titate transfer :  n text string	RSS Read system status  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter (always read as 1) 2. Off-Condition  1 042 (see Table)	<ul> <li>⇒ ECU sends in handshake:</li> <li>1. Dummy parameter (always read as 1)</li> <li>2. Off-Condition</li> <li>1</li> <li>042 (see Table)</li> </ul>	RSS Read system status  1. Dummy parameter to initiate transfer  → ECU sends in handshake:  1. Dummy parameter (always read as 1)  2. Off-Condition  1 042 (see Table)		1. Dummy parameter (always read as 1) 2. Off-Condition 1 042 (see Table)



CMD. CODE	Explanation	Parameter list	Range
WDF	Set EEPROM to default	1. Security parameter	1234
	default	2. Reset action code (1→ Full reset, 2→ everything but temp. & RC calibration)	1,2
WEE	Store Settings to EEPROM	1. Identifier: (2→ Setup data, 123 → calibration data, 103→Log data	1234
WTO	Set COMM Timeout	Value for communication timeout in seconds	020.0s
		A value of zero would disable the COMM timeout (default).  If engine is running and a non-zero value is defined for the COMM Timeout, the ECU will expect to receive valid commands via the serial interface within the timeout period. If not received, engine will be shut down with Off Condition code 42 (COM Timeout)	
WSA	Set RS232 slave- address, + renumber slaves	1. New slave-address of ECU	1255
RA1	Read	1. Dummy parameter to initiate transfer  → ECU sends in handshake:	
		<ol> <li>Off Condition</li> <li>Ambient temp.</li> <li>Min Pump Voltage</li> <li>Max Pump Voltage</li> </ol>	0 22 (see table) -20 70 0 7 07
RI1	Read Statistic info	1. Dummy parameter to initiate transfer  → ECU sends in handshake:	
		<ol> <li>Run's OK</li> <li>Starts failed</li> <li>Total Operation time</li> <li>Last Run Time</li> <li>System Time</li> </ol>	
KEN	Enable / disable GSU keyboard	1. Control parameter (0→ disabled, 1→ enabled)	0, 1
RSY	Read System values	Control parameter to initiate transfer     If 0 is sent for first parameter ECU will respond with A)     If 1 is sent for first parameter ECU will respond with B)	
		→ ECU sends in handshake	
		A)  1. TE-AD  2. KTY-AD  3. Batt-AD  4. Speed-AD  5. Thr-Plus Len  6. Aux-PulsLen	01023 01023 01023 01023 1003000us
		B)  1. Glowplug ok/not ok (1=ok, 0=not ok) 2. Status of SafetyPin input 0: SafetyPin not asserted, pumps and solenoids disabled 1: SafetyPin is asserted, pumps and solenoids enabled 2: SafetyPin function not present on this engine (this 2 <sup>nd</sup> parameter is only available on firmware 12.53 or higher)	0,1 0/1/2
RFI	Read fuel info	1. Dummy parameter to initiate transfer  → ECU sends in handshake	
		<ol> <li>Actual fuel flow</li> <li>Rest volume in tank</li> <li>Set RPM</li> <li>Actual Battery voltage (V)</li> <li>Last Run time (s)</li> <li>Fuel consumed on actual run</li> </ol>	0 10000ml/min 0 100000ml 0 250000 0 35V 0 65535 s 01000000ml



CMD. CODE	Explanation	Parameter list	Range
RAI	Read airspeed info	1. Dummy parameter to initiate transfer  → ECU sends in handshake	
		Actual flight speed	
		2. Set Air Speed	
		3. Flight Distance	
		4. Max Airspeed	
		5. Average Airspeed	
RRC	Read RC Data info	1. Dummy parameter to initiate transfer  → ECU sends in handshake	
		1. Thr Pos %	0 100%
		2. Thr Pulse length	0 3000us
		3. AUX Pos %	0 100%
		4. AUX Pulse Len	0 3000 us
		5. Fail Safe counts	0 65535
		6. Fail Safe time	0. 10000 s
TCO	Turbine control	1. control parameter	0,1,2,3,4
	(Start/Stop/ change control mode)	0: Shut down/stop turbine	
	Î	1: Start turbine and activate EXT control mode. In case engine should	
		already run or being started when the command is issued, command	
		is ignored.	
		2: Switch from EXT- to PWM-control mode. (=use PWM inputs for	
		setpoint control). PWM-Throttle input must be set at idle for the transfer to work.	
		3: Switch from PWM- to EXT-control mode. PWM inputs are not used thereafter.	
		4: Switch from EXT- to COM-control mode. Typically used to 100%	
		disable CAN-Bus control of engine.	
tco	If command is sent in lower case letters,	If command is sent in lower case letters "tco", ECU would reply in handshake with 3 parameters:	
	ECU would add in its	Engine would reply in handshake sequence with 3 parameters:	
	handshake 3 return	1st parameter: command executed yes/no; 1=yes, 0=no	0, 1
	parameters. If	An executed "yes" reply would also happen if the engine is told to	1
	command is sent in	start and it has already started or is running, same applies for a stop command.	
	capital letters there will be no parameters	command.  If a "command not executed" is reported, the engine probably is in a	
	added in the	control mode which does not allow engine control (e.g. CAN- or GSU	
	handshake.	control modes).	2/2/4/5/5
		2 <sup>nd</sup> parameter: Control mode before executing the command.	2/3/4/5/6
		2=PWM, 3=EXT, 4=COM, 5=CAN, 6= GSU control modes	0 10
		3 <sup>rd</sup> parameter: Current Engine state, according to table 2.	0 19



CMD. CODE	Explanation	Parameter list	Range
WRP	Set turbine RPM (demanded setpoint)  If command is sent in	Turbine Set RPM  In case the transferred rpm value is out of range for the connected engine, the value demanded would be truncated/limited to the allowed range for that engine.     In addition, the effective commanded rpm value would be returned with the 3rd parameter in the handshake (only on "wrp" command).  If command is sent in lower case letters "wrp", ECU would reply in handshake	MinRpm MaxRpm
	lower case letters, ECU would add in its handshake 4 return parameters. If command is sent in capital letters there will be no parameters added in the handshake.	with 4 parameters:  1st parameter: command executed yes/no; 1=yes, 0=no If a "command not executed" is reported, the engine probably is in a control mode which does not allow access.  2nd parameter: Control mode before executing the command 2=PWM, 3=EXT, 4=COM, 5=CAN, 6= GSU control modes 3rd parameter: SetRpm effectively used  4th parameter: Real Rpm of engine	0/1 2/3/4/5/6 MinRpm MaxRpm 0 300.000 1/min
WPE	Set Turbine thrust in%	1. Thrust in %  0% is equal to idle RPM 100% is equal to max. RPM  There will be an automatic "thrust% demanded" to "RPM demand" conversion computed based on the parameter "Throttle curve" (Limits menu). For further explanation of this transfer function, please refer to the instruction manual of the engine. Thrust% value can be sent also with decimals like: 81.34%	0100 %
wpe	If command is sent in lower case letters, ECU would add in its handshake 4 return parameters. If command is sent in capital letters there will be no parameters added in the handshake.	If command is sent in lower case letters "wpe", ECU would reply in handshake with 4 parameters:  1st parameter: command executed yes/no; 1=yes, 0=no If a "command not executed" is reported, the engine probably is in a control mode which does not allow access.  2nd parameter: Control mode before executing the command 2=PWM, 3=EXT, 4=COM, 5=CAN, 6= GSU control modes 3rd parameter: Set Thrust in % effectively used / forwarded 4th parameter: Real Thrust % of engine	0/1 2/3/4/5/6 0100 % 0100 %
WR2	Set 2 <sup>nd</sup> Shaft rpm, and engage rpm governor for second shaft  ONLY FOR TWO-SHAFT ENGINES!!!	1. SetRpm of second shaft  In case the given rpm2 value is out of range for the connected engine, the value demanded would be truncated/limited to the allowed range applicable for that engine.  In addition, the effective commanded rpm2 value would be returned with the 3 <sup>rd</sup> parameter in the handshake.  1 <sup>st</sup> parameter: command executed yes/no; 1=yes, 0=no, -1= error In case a value of -1 should be returned for the first parameter, the command was refused as the engine is not a two-shaft engine, in this case 2 <sup>nd</sup> and 3 <sup>rd</sup> parameter will not be sent!  If a "command not executed" is reported, the engine probably is in a control mode which does not allow access.  2 <sup>nd</sup> parameter: Control mode before executing the command 2=PWM, 3=EXT, 4=COM, 5=CAN, 6= GSU control modes	0-70000 1/min -1/0/1 2/3/4/5/6
		3 <sup>rd</sup> parameter: Rpm2 setpoint effectively used.  With this command the governor mode for the second shaft rpm would be engaged as well!	0 70000 1/min



CMD.	Explanation	Parameter list	Range
svc	Smoker valve control	On/Off controls the Smoker valve output and an optionally connected BUS- Smoker pump.	
	(ECU firmwareV10.2M to V12.01S)	0: Smoker Pump/valve is Off 1100: Smoker On, (values of 1100 define power setting for BUS- smoker pump in percent, this power setting sets/overrides also the "Smoker Flow" value in the Limits menu (only visible if a BUS-Smoker pump is actually connected.	0100
	V12.01T or higher	0: Smoker Pump/valve is Off 1100: Smoker On, (values of 1100 define power setting for BUS- smoker pump in Percent 101: If a value of 101 is sent, then the smoker pump will be run with the settings defined with parameter "Smoker Flow" in the Limits menu	0 101
SER	Service functions	1. Function code	0, 5, 11, 12, 13
		<b>0:</b> Calibrate EGT probe to ambient temperature. Parameter 2 gives ambient temperature. Engine must be OFF for this function to work.	(do not use other codes!!!)
		5: Test Glow Plug. Parameter 2 is on/off control (1=ON. 0=OFF). Engine must be OFF for this function to work.	
		<b>11:</b> Test starter motor. Parameter 2 is on/off control (1=ON. 0=OFF). Engine must be OFF for this function to work.	
		12:  Test fuel pump. Parameter 2 defines pump voltage (0=OFF. value > 0 → pump runs with given voltage)  Fuel valve will automatically open when fuel pump is commanded to run! Engine must be OFF for this function to work.	
		13: Test kerosene starter valve. Parameter 2 is for on/off control (1=ON. 0=OFF). Fuel pump will be automatically run at a preset low voltage, as long as test function is activated! Typically, this function is used to drain the fuel lines of the kerosene starter system. Engine must be OFF for this function to work. ECU firmware version 10.2N or higher required	
		47: Set "Fuel used" value (in ml); Firmware >=12.64 required	
		<b>48:</b> Set Tanksize in ml;Firmware >= 12.64 required	
		<ol> <li>Function value, Parameter 2 see above.</li> <li>Security parameter</li> </ol>	0 200000 4321
		Note: On newer firmware releases (V12.33 or higher) it is recommended to use the "TST" command instead	



CMD.	Explanation	Parameter list	Range
TST	Test functions and Auto Bleed function  Only available on ECU firmware 12.33 or higher	1. Function code  1: Test run fuel pump, main fuel valve would be opened automatically. Second parameter defines the pump voltage (range: -7.0+7.0). Positive values run the pump forward, negative values run the pump reverse, zero stops the pump.  2: Test run fuel pump, gas/ignition valve would be opened automatically, main valve closed. Second parameter defines the pump voltage (range: -7.0+7.0). Positive values run the pump forward, negative values run the pump reverse, zero stops the pump.  3: Test run fuel pump, both valves would stay closed. Second parameter defines the pump voltage (range: -7.0+7.0). Positive values run the pump forward, negative values run the pump reverse, zero stops the pump.  4: Open/close the main fuel valve. Second parameter defines the valve position. A value of 1 opens the valve, all other values close the valve. 5: Open/close the gas/ignition valve. Second parameter defines the valve. Second parameter defines the valve.  6: Test the starter motor. A value of 1 engages the motor, all other values stop the motor. If motor is not commanded off within 10 seconds, motor will be disengaged by system.  7: Test the ignition device/glow plug. A value of 1 engages the igniter, all other values disable the ignitor if igniter is not commanded off within 10 seconds, igniter will be disengaged by system.  8: Activate the "Auto bleed function". The second parameter given defines the max. allowed time in seconds for the bleeding process. The allowed range for the second parameter is: 050 seconds. In case a value of zero is sent for the timeout, a possibly running bleed process will be terminated.  9: Test run the optional oil pump.  This option is only available on engines with oilpump option (e.g. P1000)  Second parameter defines to run or stop the oilpump (range: 1/0)  2. Function value, parameter 2 see above  After having received a "TST" command the ECU will respond with one additional parameter in the Handshake. The return value tells if the command was executed or refused (0:	1 9
RTS	Read status of Test functions and Auto Bleed function	1. Dummy parameter to initiate transfer  → ECU sends in handshake:	
	Only available on ECU firmware 12.33 or higher	<ol> <li>Pump Test Voltage</li> <li>Main fuel valve opened or closed</li> <li>Gas/ignition valve opened or closed</li> <li>Starter Test active/inactive</li> <li>Ignitor test active/ inactive</li> <li>Status of Auto bleed function:         <ul> <li>o: not executed/refused</li> <li>f; Executed but not successful (timeout or aborted by user)</li> <li>Executed and successful</li> <li>Auto bleed currently in process</li> </ul> </li> </ol>	-7.00+7.0 1/0 1/0 1/0 1/0 1/0 -1/0/1/2



### Table 2: Turbine states

State	Description
0	OFF (engine can be started)
1	WAIT for RPM (Stby/Start)
2	Ignite
3	Accelerate
4	Stabilize
5	Not used
6	Learn LO
7	OFF, but still cooling (engine can be started)
8	Slow Down
9	Not used
10	Auto Off
11	Run (reg.)
12	Acceleration delay
13	SpeedReg (Speed Ctrl)
14	Two-Shaft-Regulate (only for turbines with secondary shaft)
15	PreHeat1 (only for direct Kerosene startup mode)
16	PreHeat2 (only for direct Kerosene startup mode)
17	Auto Bleed
18	Not used
19	Keros.FullOn (only for direct Kerosene startup mode)



### Table 3: Off-Conditions

	T					
Off-Condition code	Description					
0	No Off-Condition defined					
1	Shut down via RC; Off via Throttle – PWM channel					
2	Over temperature					
3	Ignition timeout					
4	Acceleration time out					
5	Acceleration too slow					
6	Over RPM					
7	Low Rpm Off					
8	Low Battery					
9	Auto Off					
10	Low temperature Off					
11	Hi Temp Off					
12	Glow Plug / Igniter defective					
13	Watch Dog Timer					
14	Fail Safe Off					
15	Manual Off (via GSU)					
16	Power fail (Battery fail)					
17	Temp Sensor fail (only during startup)					
18	Fuel fail					
19	Prop fail (only two shaft engines)					
20	2 <sup>nd</sup> engine fail					
21	2 <sup>nd</sup> engine differential to high					
22	2 <sup>nd</sup> engine no communication					
23	No oil (only on engines with separate oil reservoir)					
24	Over current					
25	No fuel pump connected/found					
26	Wrong fuel pump connected					
27	Fuel pump communication error					
28	Out of fuel shut down (only on engines with fuel sensor, like RXi types)					
29	Low Rpm shutdown, possibly due to Pump failure					
30	Low Rpm shutdown, possibly due to front board failure					
31	Clutch fail (starter motor clutch is not decoupling)					
32	ECU reboot due to re-matching of new engine connected					
33	Engine shut down, due to not receiving valid messages via the CAN interface for					
	longer than the time defined in parameter "CAN-Timeout" (Limits menu)					
	This shut down would only be triggered if the engine was commanded to start/run					
	via a command given through the CAN interface ahead. Furthermore, engine must be					
	in either in EXT- or CAN-command mode!					
	If engine is off, or e.g. commanded via PWM or RS232, this shut down will not be					
	triggered.					
	This function allows to verify that the CAN communication link is working.					
	In case this function is not desired, leave the value of the parameter "CAN timeout"					
	set to zero. If set unequal to zero, the system expects to receive valid commands sent					
	via the serial interface within the timeout period. If this is not happening the engine					



Off-Condition code	Description						
	will be shut down. Per default this supervision function is set to 15 which means 1.5						
	seconds timeout.						
	("CAN-Timeout" =0). The number given for the Timeout value is in multiples of 0,1						
	seconds. Therefore, a value of 15 would define a 1.5second timeout period.						
	Only available in firmware 12.53 or higher.						
34	NO_RC_PULSE; Only applies for engines controlled via RC-PWM signal and if engine						
	was started via RC-PWM control.						
35	ROTORBLOCKED						
	Engine rotor blocked, not turning.						
36	SAFETY PIN signal; connection to GND removed						
37	Restart aborted by user						
38	Engine off commanded via PWM-AUX channel						
39	Engine off commanded via RS232-Off command						
40	Engine off commanded via CAN-Bus Off command						
41	Test Mode Off command						
42	COM Timeout.						
	Engine shut down, due to not receiving valid messages via the main serial interface						
	for longer than the time defined in parameter "COMM-Timeout" (Limits menu)						
	This shut down would only be triggered if the engine was commanded to start/run						
	via a command given through the serial interface ahead. Furthermore, engine must						
	be in either in EXT- or COM-command mode!						
	If engine is off, or e.g. commanded via PWM or CAN-Bus, this shut down will not be triggered.						
	This function allows to verify that the serial communication link is working.						
	In case this function is not desired, leave the value of the parameter "COMM						
	timeout" set to zero. If set unequal to zero, the system expects to receive valid						
	commands sent via the serial interface within the timeout period. If this is not						
	happening the engine will be shut down. Per default this supervision function is						
	disabled.						
	("COMM-Timeout" =0). The number given for the Timeout value is in multiples of 0,1						
	seconds. Therefore, a value of 20 would define a 2second timeout period.						
	Only available in firmware 12.33 or higher.						
43	Preheat Timeout; preheat function timed out; only on engine with this function						
	enabled						
44	Oilpump disconnected						
45	Oilpump rotor blocked						
46	Oil level low						

#### Remark:

Off Conditions 20-22 are only for multiengine communication setup (engine interlinkage via serial interface)

Off Conditions 38 only available in firmware 12.33 or higher; before, this off condition resulted in code 2.

Off Conditions 39-41 only available in firmware 12.33 or higher; before these off conditions (39-41) resulted all in Off Condition 15.

On some OEM customer specific firmware builds, codes 39-41 are re-routed to code 15, and code 38 is re-routed to code 2 (for backward compatibility).



### Table 4: Health check results

After power up all flags will report "0" (=not tested). To perform health check the "DHC" command needs to be issued for the flags to be set. The "DHC" command initially also would set the flags to zero. Health check is completed once all flags are reported unequal to zero!

Bit state in	Return value					
return value	Bit 0	Bit1	Bit3			
Starter "ok"	0: not tested	0: Driver ok	0: ok	0: ok		
	1: Ok, system works	1: Driver error	1: No current /open	1: No engine rpm		
			circuit (Motor defective	detected, possibly		
	All other values define		or cable/ connector	starter clutch not		
	error code (Bit 1 to Bit		interruption)	engaging.		
	3 set in return value)					
Main valve "ok	0: not tested	0: Driver ok	0: ok	Not defined		
	1: Ok, system works	1: Driver error	1: No current /open			
	All other values define		circuit (valve defective			
	error code (Bit 1 to Bit		or cable/ connector			
	3 set in return value)		interruption)			
Starter valve	0: not tested	0: Driver ok	0: ok	Not defined		
"ok"	1: Ok, system works	1: Driver error	1: No current /open			
	All other values define		circuit (valve defective			
	error code (Bit 1 to Bit		or cable/ connector			
	3 set in return value)		interruption)			
RPM Sensor	0: not tested	0: Driver ok	Not defined	0: ok		
"ok	1: Ok, system works	1: Driver error		1: No rpm		
	All other values define			detected; bad rpm		
	error code (Bit 1 to Bit			sensor; or engine		
	3 set in return value)			rotor stuck		
Pump "ok"	0: not tested	0: Driver ok	0: ok	0: ok		
	1: Ok, system works	1: Driver error	1: No current /open	1: No pump rpm;		
	All other values define		circuit (pump defective	Pump rotor		
	error code (Bit 1 to Bit		or cable/ connector	blocked		
	3 set in return value)		interruption)			
Glow Plug "ok"	0: not tested	0: Driver ok	0: ok	0: ok		
	1: Ok, system works	1: Driver error	1: No current /open	1: Current too low/		
	All other values define		circuit (ignitor defective	out of range, Bad		
	error code (Bit 1 to Bit		or cable/ connector	glow element!		
FOT	3 set in return value)	0.00	interruption)	No. 1.60		
EGT Sensor	0: not tested	0: Driver ok	0: ok	Not defined		
	1: Ok, system works	1: Driver error	1: open circuit, possibly			
	All other values define		bad thermocouple /			
	error code (Bit 1 to Bit		broken connection			
	3 set in return value)					



www.jetcat.de

### **EXAMPLES**

### **Example 1** (reading engine real values):

The following command is sent to the ECU (assuming slave address=1):

1, RAC, 1<CR>

→ Command sent to the ECU

#### Answers of the ECU:

1,RAC,1<CR>
1,HS,OK,35000,568,1.32,11,30.1,0.12<CR>

→ 1. Echo of the received command

→ 2. Handshake of the ECU

(Command accepted and is executed).

#### This gives the following information:

Turbine RPM = 35000 1/min Turbine EGT = 568 °C Pump voltage = 1.32 V

Turbine State =  $11 \rightarrow$  State="Run reg" (see table 2) Throttle position = 30.1% (via throttle PWM input!)

Engine current = 0.12A



### **Example 2** (read out log data):

The following command is sent to the ECU (assuming slave address=1):

1, XLO, 1<CR>

→ Command sent to the ECU

### ECU answer (example):

I,XLO,1
---------

$\rightarrow$ 1. Echo of the received command

Time	Rpm	SetRpm	Temp	Pump	State	THR	AUX	Batt	AirSpd	SetSpd
34	1420	0	20	0.00	1	59	0	8.13	0	0
35	3920	0	20	0.00	2	99	0	8.04	0	0
36	4980	0	19	0.00	2	100	0	7.99	0	0
37	5120	0	20	0.00	2	31	0	7.97	0	0
38	5330	35500	42	0.27	3	18	0	7.94	0	0
39	6960	35500	87	0.29	3	18	0	7.88	0	0
40	8630	35500	118	0.30	3	18	0	7.83	0	0
41	10410	35500	190	0.32	3	18	0	7.78	0	0
42	12880	35500	296	0.35	3	18	0	7.73	0	0
43	15600	35500	394	0.38	3	18	0	7.70	0	0
44	17560	35500	461	0.40	3	18	0	7.67	0	0
45	20440	35500	515	0.44	3	18	0	7.65	0	0
46	23900	35500	552	0.46	3	18	0	7.63	0	0
47	27940	35500	572	0.50	3	18	0	7.62	0	0
48	31760	35500	596	0.54	3	18	0	7.62	0	0
49	37330	55000	631	0.58	4	18	0	7.66	0	0
50	43820	55000	664	0.63	4	18	0	7.72	0	0
51	50310	55000	667	0.68	4	18	0	7.77	0	0
52	55200	55000	637	0.69	6	18	0	7.82	0	0
53	55930	35000	593	0.60	6	18	0	7.85	0	0
54	51190	35000	546	0.51	6	18	0	7.88	0	0
55	45020	35000	510	0.44	6	18	0	7.91	0	0
56	39920	35000	490	0.41	6	18	0	7.93	0	0
57	36850	35000	489	0.39	6	18	0	7.95	0	0
58	34400	35000	502	0.39	11	18	0	7.96	0	0
59	33310	35000	517	0.40	11	18	0	7.97	0	0
60	33150	35000	544	0.40	11	18	0	7.98	0	0
61	33130	35000	564	0.41	11	18	0	7.99	0	0
62	33180	35000	574	0.42	11	18	0	8.00	0	0

DATA END

1,HS,OK

→ (command accepted and was executed).



www.jetcat.de

<sup>→</sup> end of log data

### **Example 3** (engine control):

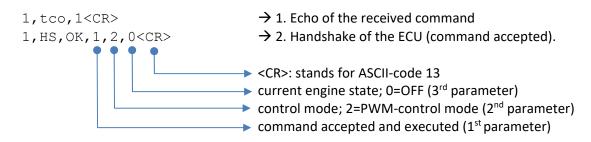
### a) Start engine

For engine start, the following command is sent to the ECU (assuming slave address=1):

1,tco,1<CR>

→ Command sent to the ECU

#### Answers of the ECU:



→ Turbine will be started up now. In case turbine should already run, command has no effect.

Alternatively, the "older" TCO command (capital letters) can be used, here there are no parameters returned with the handshake:

1, TCO, 1<CR>

→ Command sent to the ECU

#### Answers of the ECU:

1, TCO, 1<CR>

1, HS, OK<CR>

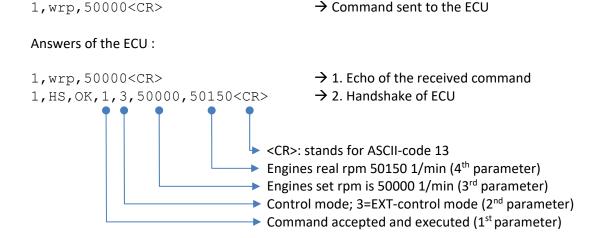
→ 1. Echo of the received command

→ 2. Handshake of the ECU (command accepted).



### b) Set engine Rpm

The following command is sent to the ECU (assuming slave address=1, and turbine already running):



In case the engine should not run, this command has no effect.

Alternatively, the older "WRP" command (capital letters) can be used, here there are no parameters returned with the handshake:

1, WRP, 50000<CR>  $\rightarrow$  Command sent to the ECU

#### Answers of the ECU:

1, WRP, 50000<CR>  $\rightarrow$  1. Echo of the received command 1, HS, OK<CR>  $\rightarrow$  2. Handshake of ECU

In case the engine should not run, this command has no effect.



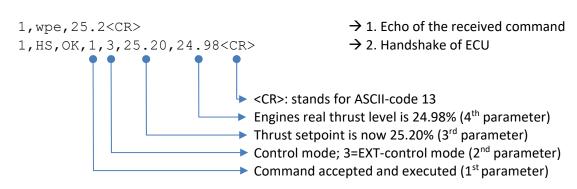
### c) Set thrust in %

The following command is sent to the ECU (assuming slave address=1, and turbine already running):

1, wpe, 25.2 < CR >

→ Command sent to the ECU

#### Answers of the ECU:



→ Turbine RPM will be set to 25.2% thrust (For automatic flight control systems, it is recommended to use the WPE command to control the turbine thrust, instead of the WRP command).

Alternatively, the older "WPE" command (capital letters) can be used, here there are no parameters returned with the handshake:

1, WPE, 25.2<CR>

→ Command sent to the ECU

#### Answers of the ECU:

1, WPE, 25.2<CR>

→ 1. Echo of the received command

1, HS, OK<CR>

→ 2. Handshake of ECU

In case the engine should not run, this command has no effect.

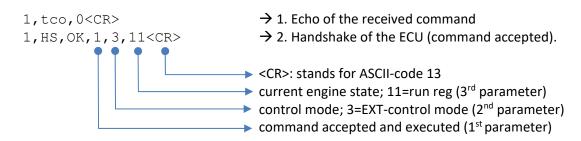


### d) Stop engine

The following command is sent to the ECU (assuming slave address=1):

1, tco, 0 < CR >  $\rightarrow$  Command sent to the ECU

#### Answers of the ECU:



→ Turbine will be shut down. In case the engine should not run or be starting up, this command has no effect.

Alternatively, the older "WPE" command (capital letters) can be used, here there are no parameters returned with the handshake:

1, TCO, 0 < CR >  $\rightarrow$  Command sent to the ECU

#### Answers of the ECU:

#### Important:

Although the ECU has a 512 Byte I/O buffer, before sending a new command it should be assured that the echo and the handshakes of <u>all</u> addressed devices have been received (especially when assuming that more than one ECU is connected)! This safely avoids possible I/O buffer overruns.





Ingenieurbüro CAT, M. Zipperer GmbH Wettelbrunner Straße 6, D-79282 Ballrechten-Dottingen

Tel.: + 49 (0)76 34- 5056 - 800 Fax: + 49 (0)76 34 - 5056 - 801 Internet: <u>www.jetcat.de</u>

