

Summary of Agreement

1.1 Physical Layer

Physical Transmission: RS485/RS422
Address: 1 ~ 63
Baud rate: 9600bps
Maximum Distance: 1000M
Medium: Shielded twisted pair (STP)
Mode: MODBUS — RTU

1.2 Link Layer

Transmission: Master-slave + Half duplex

First, The Host addressing the terminal device(Slave), then on the opposite direction, Slave transmit the response to the Host. The protocol only used for data transmit between Host and Slave. Data Transmit through independent devices are prohibit. So that the data from independent device will not occupy the communication channel during the initialization, it is limit to signal inquiry request to the Host

Data Transmission Format: 1 Starting byte; 8 data byte; 1 stop byte; No CRC16 byte
Data Transmission Format:

Slave Address	Function Code	Data	CRC
1-Byte	1-Byte	N-Byte	2byte

The Protocol defines CRC, DATA and other other related parameters , these are necessary for specific data exchange. When data frame arrive at the slave, it will addressing to its specific device, then problematic head will be remove , the data will read by the device. If there are no errors, the slave will perform the tasks request by the data, the slave will have data back to the sender, by add problematic head and send the data back to the sender, the response data send back from the slave contains the following contents: The terminal slave address(Address), the executed commands(Function), data generated after executed the requested command(Data) and a parity check code(Check), The Slave can identify the wrong message from the Host, and make different response.

1.3 Address

Address is the beginning of the frame, compose by one byte(value 1-63). This address indicates the identity of the device that specified by user. This slave will get the data from the connected Host. For whole system, Address for each slaves must be unique. The slave will feedback when it addressed, when slave back with response, The Slave address data will show which slave connect with Host.

1.4 Function

Function show the operation that slave will take after addressed. All Function code & meaning support by monitor device list in Table 2

Function Code	Range of Register Address	Meaning
0x03	0x0400-0x165F	Get one or more values from Register
0x10	0x0400-0x165F	Write one or more values from Register

1.5 Data

Data consists by two different hexadecimal number systems, range 00H~FFH. It made up of RTU character according to the network transmission mode. The data from Host to Slave need contains the additional information: Slave must execute the behavior defined by function code.(in-consecutive register address included); number of the pending items need to be process; actual number of data bytes in domain. For example:Function Code to Slave,read a register, data need indicate start and number of specific register, embedded address data types, different slave will have different result, because the features of slaves are different.

1.6 CRC

The verification allow the error exist during the transmission between Host and Slave. Sometimes because of the electrical noise and other interruptions, a set of data may change during the transmission from one device to another. The CRC verification ensure that Host or Slave not respond to the incorrect data that has changed during the transmission. This verification improve the security and efficiency of whole system.We are using 16-bit circulation Redundary Check(CRC16),CRC occupies two bytes,contained one 16-bit Binary value.CRC value calculated by transmitting device,then attach to the data frame, the receiving device recalculate the CRC value . Compare with the received CRC value, if two value are not equal, an error arise.

Set all bytes to "1" for a 16-bit register,Then operation by 8 bit byte in frame and current value of register continuity, only 8 data bits per byte participate in generation CRC value.start bits; stop bits and other possible parity bits will not affect CRC value generation.During the CRC value generation, each 8-bit byte XOR with the content in register,then shift the result to low-bit, high-bit supplement with "0", the last significant bit(LSB) remove and test. If the LSB is "1", the register XOR with a preset fixed value, if the LSB show"0", not do any treatment. Repeat the above process until perform 8 times shift operation. The next 8-bit bytes XOR with current value of register, also perform another 8 shift XOR operation as above -mentioned, the final value we get is the CRC value.

The Process of generating a CRC value

Step1: Preset all bytes to "1" For 16-bit register, defined as CRC register

Step2: XOR the first 8-bit byte in data frame with the low byte in CRC register

Step3: Shift the CRC register one bit to the right,high-bit supplement with "0", the LSB remove and test

Step4: If the LSB is "0", repeat step3(Next Shift), if the LSB is "1", the register XOR with a preset fixed value, (0A001H)

Step 5:Repeat step 3 &4, until perform 8 times shift operation.

Step 6: Repeat from step2 to 5 to deal with next 8-bit byte, until end of all bytes processing complete.

Step 7: Finally, the value of CRC register is the value of CRC

1.7 Function 0x03

Through the 0x03 function code,queries allow the register information,data format is as follows:

1.7.1 Format

Host request message Format :

Slave Address	Function Code	Starting Address	Number of Registers	CRC16
1 Byte	1 Byte	1 Word	1 Word	1 Word
Byte	Byte	Hi Byte Lo Byte	Hi Byte Lo Byte	Lo Byte Hi Byte

Slave response message Format:

Slave Address	Function Code	Byte Count	Register-1 value	...	Register-N value	CRC16
1 Byte	1 Byte	1 Byte	1 Word	N-2	1 Word	1 Word
Byte	Byte	Byte	Hi Byte Lo Byte	...	Hi Byte Lo Byte	Lo Byte Hi Byte

Example(query the state of the Inverter)

Query:

Slave Address	0x01
Function Code	0x03
Register Address Hi	0x00
Register Address Lo	0x00
Number of Registers Hi	0x00
Number of Registers Lo	0x01
CRC16 Lo	0x84
CRC16 Hi	0x0A

Response:

Slave Address	0x01
Function Code	0x03
Byte Count	0x02
Value of Register Hi	0x00
Value of Register Lo	0x00
CRC16 Lo	0xB8
CRC16 Hi	0x44

1.7.2 Read inverter registers list

System Messages						
Addresses	Definition	Type	Accuracy	Unit	Range	Remarks
0400	AddressMask_Realtime_SysInfo1	U64				
0401						
0402						
0403						
0404	SysState	U16				Refer to system status table
0405	Fault1	U16				Refer to fault tables
0406	Fault2	U16				Refer to fault tables
0407	Fault3	U16				Refer to fault tables
0408	Fault4	U16				Refer to fault tables
0409	Fault5	U16				Refer to fault tables
040A	Fault6	U16				Refer to fault tables
040B	Fault7	U16				Refer to fault tables
040C	Fault8	U16				Refer to fault tables
040D	Fault9	U16				Refer to fault tables
040E	Fault10	U16				Refer to fault tables
040F	Fault11	U16				Refer to fault tables
0410	Fault12	U16				Refer to fault tables
0411	Fault13	U16				Refer to fault tables
0412	Fault14	U16				Refer to fault tables
0413	Fault15	U16				Refer to fault tables
0414	Fault16	U16				Refer to fault tables
0415	Fault17	U16				Refer to fault tables
0416	Fault18	U16				Refer to fault tables
0417	Countdown	U16	1	s		
0418	Temperature_Env1	I16	1	°C		
0419	Temperature_Env2	I16	1	°C		
041A	Temperature_HeatSink1	I16	1	°C		
041B	Temperature_HeatSink2	I16	1	°C		
041C	Temperature_HeatSink3	I16	1	°C		
041D	Temperature_HeatSink4	I16	1	°C		
041E	Temperature_HeatSink5	I16	1	°C		
041F	Temperature_HeatSink6	I16	1	°C		
0420	Temperature_Inv1	I16	1	°C		
0421	Temperature_Inv2	I16	1	°C		
0422	Temperature_Inv3	I16	1	°C		
0423	Temp_Rsvd1	I16	1	°C		
0424	Temp_Rsvd2	I16	1	°C		
0425	Temp_Rsvd3	I16	1	°C		
0426	GenerationTime_Today	U16	1	hour		

				s		
0427	GenerationTime_Total	U32	1	hour		
0428				s		
0429	ServiceTime_Total	U32	1	hour		
042A				s		
042B	InsulationResistance	U16	1	k Ω		
042C	SysTime_Year	U16				
042D	SysTime_Month	U16				
042E	SysTime_Date	U16				
042F	SysTime_Hour	U16				
0430	SysTime_Minute	U16				
0431	SysTime_Second	U16				
0432	Reserved					
...						
043F	Reserved					
0440	AddressMask_Realtime_SysIn fo2	U64				
0441						
0442						
0443						
0444	Production_Code	U16				
0445	Serial_Number0	ASCII				
0446	Serial_Number1	ASCII				
0447	Serial_Number2	ASCII				
0448	Serial_Number3	ASCII				
0449	Serial_Number4	ASCII				
044A	Serial_Number5	ASCII				
044B	Serial_Number6	ASCII				
044C	Serial_Number_rsvd					
044D	Hardware_Version0	ASCII				
044E	Hardware_Version1	ASCII				
044F	Software_Version_Stage_COM	ASCII				
0450	Software_Version_Major_COM	ASCII				
0451	Software_Version_Custom_COM	ASCII				
0452	Software_Version_Minor_COM	ASCII				

0453	Software_Version_Stage_Master	ASCII				
0454	Software_Version_Major_Master	ASCII				
0455	Software_Version_Custom_Master	ASCII				
0456	Software_Version_Minor_Master	ASCII				
0457	Software_Version_Stage_Slave	ASCII				
0458	Software_Version_Major_Slave	ASCII				
045E	Reserved					
...						
047F	Reserved					

Fault table

Table	Byte	Bit	identifier	ID
Fault1	byte 0	bit 0	GridOVP	001
		bit 1	GridUVP	002
		bit 2	GridOFP	003
		bit 3	GridUFP	004
		bit 4	GFCI	005
		bit 5	OVRT	006
		bit 6	LVRT	007
		bit 7	IslandFault	008
	byte 1	bit 0	GridOVPIstant1	009
		bit 1	GridOVPIstant2	010
		bit 2	VGridLineFault	011
		bit 3	InvOVP	012
		bit 4		013
		bit 5		014
		bit 6		015
		bit 7		016
Fault2	byte 0	bit 0	HwADFaultIGrid	017
		bit 1	HwADFaultDCI	018
		bit 2	HwADFaultVGrid(DC)	019
		bit 3	HwADFaultVGrid(AC)	020
		bit 4	GFCIDeviceFault(DC)	021
		bit 5	GFCIDeviceFault(AC)	022
		bit 6	HwADFaultDCV	023
		bit 7	HwADFaultIdc	024
	byte 1	bit 0		025
		bit 1		026
		bit 2		027

		bit 3		028
		bit 4	ConsistentFault_GFCI	029
		bit 5	ConsistentFault_Vgrid	030
		bit 6		031
		bit 7		032
Fault3	byte 0	bit 0	SpiCommFault(DC)	033
		bit 1	SpiCommFault(AC)	034
		bit 2	SChip_Fault	035
		bit 3	MChip_Fault	036
		bit 4	HwAuxPowerFault	037
		bit 5		038
		bit 6		039
		bit 7		040
	byte 1	bit 0	RelayFail	041
		bit 1	IsoFault	042
		bit 2	PEConnectFault	043
		bit 3	PvConfigError	044
		bit 4	CTDisconnect	045
		bit 5	ReversalConnection	046
bit 6		ParallelFault	047	
bit 7			048	
Fault4	byte 0	bit 0	TempFault_Bat	049
		bit 1	TempFault_HeatSink1	050
		bit 2	TempFault_HeatSink2	051
		bit 3	TempFault_HeatSink3	052
		bit 4	TempFault_HeatSink4	053
		bit 5	TempFault_HeatSink5	054
		bit 6	TempFault_HeatSink6	055
		bit 7		056
	byte 1	bit 0	TempFault_Env1	057
		bit 1	TempFault_Env2	058
		bit 2	TempFault_Inv1	059
		bit 3	TempFault_Inv2	060
		bit 4	TempFault_Inv3	061
		bit 5		062
bit 6			063	
bit 7			064	
Fault5	byte 0	bit 0	VbusRmsUnbalance	065
		bit 1	VbusInstantUnbalance	066
		bit 2	BusUVP	067
		bit 3	BusZVP	068
		bit 4	PVOVP	069
		bit 5	BatOVP	070
		bit 6	LLCBusOVP	071
		bit 7	SwBusRmsOVP	072
	byte 1	bit 0	SwBusInstantOVP	073
		bit 1		074

		bit 2		075
		bit 3		076
		bit 4		077
		bit 5		078
		bit 6		079
		bit 7		080
Fault6	byte 0	bit 0	SwBatOCP	081
		bit 1	DciOCP	082
		bit 2	SwOCPInstant	083
		bit 3	SwBuckBoostOCP	084
		bit 4	SwAcRmsOCP	085
		bit 5	SwPvOCPInstant	086
		bit 6	IpvUnbalance	087
		bit 7	IacUnbalance	088
	byte 1	bit 0		089
		bit 1		090
		bit 2		091
		bit 3		092
		bit 4		093
		bit 5		094
		bit 6		095
bit 7			096	
Fault7	byte 0	bit 0	HwLLCBusOVP	097
		bit 1	HwBusOVP	098
		bit 2	HwBuckBoostOCP	099
		bit 3	HwBatOCP	100
		bit 4		101
		bit 5	HwPVOCP	102
		bit 6	HwACOCP	103
		bit 7		104
	byte 1	bit 0		105
		bit 1		106
		bit 2		107
		bit 3		108
		bit 4		109
		bit 5	Overload1	110
		bit 6	Overload2	111
bit 7		Overload3	112	
Fault8	byte 0	bit 0	OverTempDerating	113
		bit 1	FreqDerating	114
		bit 2	FreqLoading	115
		bit 3	VoltDerating	116
		bit 4	VoltLoading	117
		bit 5		118
		bit 6		119
		bit 7		120
	byte 1	bit 0		121

		bit 1		122	
		bit 2		123	
		bit 3	BatLowVoltageAlarm	124	
		bit 4	BatLowVoltageShut	125	
		bit 5		126	
		bit 6		127	
		bit 7		128	
Fault9	byte 0	bit 0	unrecoverHwAcOCP	129	
		bit 1	unrecoverBusOVP	130	
		bit 2	unrecoverHwBusOVP	131	
		bit 3	unrecoverIpvUnbalance	132	
		bit 4	unrecoverEPSBatOCP	133	
		bit 5	unrecoverAcOCPIstant	134	
		bit 6	unrecoverIacUnbalance	135	
		bit 7		136	
		byte 1	bit 0	unrecoverPvConfigError	137
			bit 1	unrecoverPVOCPInstant	138
			bit 2	unrecoverHwPVOCP	139
			bit 3	unrecoverRelayFail	140
			bit 4	unrecoverVbusUnbalance	141
			bit 5		142
	bit 6			143	
	bit 7		144		
Fault10	byte 0	bit 0	USBFault	145	
		bit 1	WifiFault	146	
		bit 2	BluetoothFault	147	
		bit 3	RTCFault	148	
		bit 4	CommEEPROMFault	149	
		bit 5	FlashFault	150	
		bit 6		151	
		bit 7		152	
		byte 1	bit 0	SciCommLose(DC)	153
			bit 1	SciCommLose(AC)	154
			bit 2	SciCommLose(Fuse)	155
			bit 3	SoftVerError	156
			bit 4	BMSCommunicatonFault	157
			bit 5		158
	bit 6			159	
	bit 7		160		
Fault11	byte 0	bit 0	ForceShutdown	161	
		bit 1	RemoteShutdown	162	
		bit 2	Drms0Shutdown	163	
		bit 3		164	
		bit 4	RemoteDerating	165	
		bit 5	LogicInterfaceDerating	166	
		bit 6	AlarmAntiRefluxing	167	
		bit 7		168	

	byte 1	bit 0	FanFault1	169
		bit 1	FanFault2	170
		bit 2	FanFault3	171
		bit 3	FanFault4	172
		bit 4	FanFault5	173
		bit 5	FanFault6	174
		bit 6		175
		bit 7		176
Fault12	byte 0	bit 0	BMS OVP	177
		bit 1	BMS UVP	178
		bit 2	BMS OTP	179
		bit 3	BMS UTP	180
		bit 4	BMS OCP	181
		bit 5	BMS Short	182
		bit 6		183
		bit 7		184
	byte 1	bit 0		185
		bit 1		186
		bit 2		187
		bit 3		188
		bit 4		189
		bit 5		190
		bit 6		191
		bit 7		192
Fault13	byte 0	bit 0	StringFuse_Fault0	193
		bit 1	StringFuse_Fault1	194
		bit 2	StringFuse_Fault2	195
		bit 3	StringFuse_Fault3	196
		bit 4	StringFuse_Fault4	197
		bit 5	StringFuse_Fault5	198
		bit 6	StringFuse_Fault6	199
		bit 7	StringFuse_Fault7	200
	byte 1	bit 0	StringFuse_Fault8	201
		bit 1	StringFuse_Fault9	202
		bit 2	StringFuse_Fault10	203
		bit 3	StringFuse_Fault11	204
		bit 4	StringFuse_Fault12	205
		bit 5	StringFuse_Fault13	206
		bit 6	StringFuse_Fault14	207
		bit 7	StringFuse_Fault15	208
Fault14	byte 0	bit 0	StringFuse_Fault16	209
		bit 1	StringFuse_Fault17	210
		bit 2	StringFuse_Fault18	211
		bit 3	StringFuse_Fault19	212
		bit 4	StringFuse_Fault20	213
		bit 5	StringFuse_Fault21	214
		bit 6	StringFuse_Fault22	215

	byte 1	bit 7	StringFuse_Fault23	216
		bit 0	StringFuse_Fault24	217
		bit 1	StringFuse_Fault25	218
		bit 2	StringFuse_Fault26	219
		bit 3	StringFuse_Fault27	220
		bit 4	StringFuse_Fault28	221
		bit 5	StringFuse_Fault29	222
		bit 6	StringFuse_Fault30	223
		bit 7	StringFuse_Fault31	224
Fault15	byte 0	bit 0	InputFuse_Fault0	225
		bit 1	InputFuse_Fault1	226
		bit 2	InputFuse_Fault2	227
		bit 3	InputFuse_Fault3	228
		bit 4	InputFuse_Fault4	229
		bit 5	InputFuse_Fault5	230
		bit 6	InputFuse_Fault6	231
		bit 7	InputFuse_Fault7	232
	byte 1	bit 0	InputFuse_Fault8	233
		bit 1	InputFuse_Fault9	234
		bit 2	InputFuse_Fault10	235
		bit 3	InputFuse_Fault11	236
		bit 4	InputFuse_Fault12	237
		bit 5	InputFuse_Fault13	238
		bit 6	InputFuse_Fault14	239
bit 7	InputFuse_Fault15	240		
Fault16	byte 0	bit 0	CombinerOverVoltageGroup1	
		bit 1	CombinerOverVoltageGroup2	
		bit 2	CombinerOverVoltageGroup3	
		bit 3	CombinerOverVoltageGroup4	
		bit 4	CombinerOverVoltageGroup5	
		bit 5	CombinerOverVoltageGroup6	
		bit 6	CombinerOverVoltageGroup7	
		bit 7	CombinerOverVoltageGroup8	
	byte 1	bit 0	CombinerOverVoltageGroup9	
		bit 1	CombinerOverVoltageGroup10	
		bit 2	CombinerOverVoltageGroup11	
		bit 3	CombinerOverVoltageGroup12	
		bit 4	CombinerOverVoltageGroup13	
		bit 5	CombinerOverVoltageGroup14	
		bit 6	CombinerOverVoltageGroup15	
		bit 7	CombinerOverVoltageGroup16	
Fault17	byte 0	bit 0	CombinerUnderVoltageGroup1	
		bit 1	CombinerUnderVoltageGroup2	
		bit 2	CombinerUnderVoltageGroup3	
		bit 3	CombinerUnderVoltageGroup4	
		bit 4	CombinerUnderVoltageGroup5	
		bit 5	CombinerUnderVoltageGroup6	

		bit 6	CombinerUnderVoltageGroup7	
		bit 7	CombinerUnderVoltageGroup8	
	byte 1	bit 0	CombinerUnderVoltageGroup9	
		bit 1	CombinerUnderVoltageGroup10	
		bit 2	CombinerUnderVoltageGroup11	
		bit 3	CombinerUnderVoltageGroup12	
		bit 4	CombinerUnderVoltageGroup13	
		bit 5	CombinerUnderVoltageGroup14	
		bit 6	CombinerUnderVoltageGroup15	
bit 7	CombinerUnderVoltageGroup16			
Fault18	byte 0	bit 0	CombinerOverCurrent1	
		bit 1	CombinerOverCurrent2	
		bit 2	CombinerOverCurrent3	
		bit 3	CombinerOverCurrent4	
		bit 4	CombinerOverCurrent5	
		bit 5	CombinerOverCurrent6	
		bit 6	CombinerOverCurrent7	
		bit 7	CombinerOverCurrent8	
	byte 1	bit 0	CombinerOverCurrent9	
		bit 1	CombinerOverCurrent10	
		bit 2	CombinerOverCurrent11	
		bit 3	CombinerOverCurrent12	
		bit 4	CombinerOverCurrent13	
		bit 5	CombinerOverCurrent14	
		bit 6	CombinerOverCurrent15	
bit 7	CombinerOverCurrent16			

System status table

Value	status
0	Waiting
1	Checking grid
2	Grid connected
3	GridUFP
4	Emergency power supply (EPS)
5	Recoverable fault
6	Permanent fault
7	Self-charging

AC on Grid output						
Address	Definition	Type	Accuracy	Unit	Range	Remarks
0480	AddressMask_Realtime_GridOutput1	U64				
0481						
0482						
0483						
0484	Frequency_Grid	U16	0,01	Hz		
0485	ActivePower_Output_Total	I16	0,01	kW		
0486	ReactivePower_Output_Total	I16	0,01	kW		
0487	ApparentPower_Output_Total	I16	0,01	kW		
0488	ActivePower_PCC_Total	I16	0,01	kW		
0489	ReactivePower_PCC_Total	I16	0,01	kW		
048A	ApparentPower_PCC_Total	I16	0,01	kW		
048B	GridOutput_Rsvd1					
048C	GridOutput_Rsvd2					
048D	Voltage_Phase_R	U16	0,1	V		
048E	Current_Output_R	U16	0,01	A		
048F	ActivePower_Output_R	I16	0,01	kW		
0490	ReactivePower_Output_R	I16	0,01	kW		
0491	PowerFactor_Output_R	I16	0,001	p.u.		
0492	Current_PCC_R	U16	0,01	A		
0493	ActivePower_PCC_R	I16	0,01	kW		
0494	ReactivePower_PCC_R	I16	0,01	kW		
0495	PowerFactor_PCC_R	I16	0,001	p.u.		
0496	R_Rsvd1					
0497	R_Rsvd2					
0498	Voltage_Phase_S	U16	0,1	V		
0499	Current_Output_S	U16	0,01	A		
049A	ActivePower_Output_S	I16	0,01	kW		
049B	ReactivePower_Output_S	I16	0,01	kW		
049C	PowerFactor_Output_S	I16	0,001	p.u.		
049D	Current_PCC_S	U16	0,01	A		
049E	ActivePower_PCC_S	I16	0,01	kW		
049F	ReactivePower_PCC_S	I16	0,01	kW		
04A0	PowerFactor_PCC_S	I16	0,001	p.u.		
04A1	S_Rsvd1					
04A2	S_Rsvd2					
04A3	Voltage_Phase_T	U16	0,1	V		
04A4	Current_Output_T	U16	0,01	A		
04A5	ActivePower_Output_T	I16	0,01	kW		
04A6	ReactivePower_Output_T	I16	0,01	kW		
04A7	PowerFactor_Output_T	I16	0,001	p.u.		
04A8	Current_PCC_T	U16	0,01	A		
04A9	ActivePower_PCC_T	I16	0,01	kW		
04AA	ReactivePower_PCC_T	I16	0,01	kW		

04AB	PowerFactor_PCC_T	I16	0,001	p.u.		
04AC	T_Rsvd1					
04AD	T_Rsvd2					
04AE	ActivePower_PV_Ext	U16	0,01	kW		
04AF	ActivePower_Load_Sys	U16	0,01	kW		
04B0	Reserved					
...						
04BF	Reserved					

AC off Grid output						
Address	Definition	Type	Accuracy	Unit	Range	Remarks
0500	AddressMask_Realtime_EmergencyOutput1	U64				
0501						
0502						
0503						
0504	ActivePower_Load_Total	I16	0,01	kW		
0505	ReactivePower_Load_Total	I16	0,01	kW		
0506	ApparentPower_Load_Total	I16	0,01	kW		
0507	Frequency_Output	U16	0,01	Hz		
0508	ESOutput_Rsvd1					
0509	ESOutput_Rsvd2					
050A	Voltage_Output_R	U16	0,1	V		
050B	Current_Load_R	I16	0,01	A		
050C	ActivePower_Load_R	I16	0,01	kW		
050D	ReactivePower_Load_R	I16	0,01	kW		
050E	ApparentPower_Load_R	I16	0,01	kVA		
050F	LoadPeakRatio_R	U16	0,01	p.u.		
0510	ESR_Rsvd1					
0511	ESR_Rsvd2					
0512	Voltage_Output_S	U16	0,1	V		
0513	Current_Load_S	I16	0,01	A		
0514	ActivePower_Load_S	I16	0,01	kW		
0515	ReactivePower_Load_S	I16	0,01	kW		
0516	ApparentPower_Load_S	I16	0,01	kVA		
0517	LoadPeakRatio_S	U16	0,01	p.u.		
0518	ESS_Rsvd1					
0519	ESS_Rsvd2					
051A	Voltage_Output_T	U16	0,1	V		
051B	Current_Load_T	I16	0,01	A		
051C	ActivePower_Load_T	I16	0,01	kW		
051D	ReactivePower_Load_T	I16	0,01	kW		
051E	ApparentPower_Load_T	I16	0,01	kVA		
051F	LoadPeakRatio_T	U16	0,01	p.u.		
0520	EST_Rsvd1					

0521	EST_Rsvd2					
0522	Reserved					
...						
053F	Reserved					

PV input						
Address	Definition	Type	Accuracy	Unit	Range	Remarks
0580	AddressMask_Realtime_Input_PV1	U64				
0581						
0582						
0583						
0584	Voltage_PV1	U16	0,1	V		
0585	Current_PV1	U16	0,01	A		
0586	Power_PV1	U16	0,01	kW		
0587	Voltage_PV2	U16	0,1	V		
0588	Current_PV2	U16	0,01	A		
0589	Power_PV2	U16	0,01	kW		
058A	Voltage_PV3	U16	0,1	V		
058B	Current_PV3	U16	0,01	A		
058C	Power_PV3	U16	0,01	kW		
058D	Voltage_PV4	U16	0,1	V		
058E	Current_PV4	U16	0,01	A		
058F	Power_PV4	U16	0,01	kW		
0590	Voltage_PV5	U16	0,1	V		
0591	Current_PV5	U16	0,01	A		
0592	Power_PV5	U16	0,01	kW		
0593	Voltage_PV6	U16	0,1	V		
0594	Current_PV6	U16	0,01	A		
0595	Power_PV6	U16	0,01	kW		
0596	Voltage_PV7	U16	0,1	V		
0597	Current_PV7	U16	0,01	A		
0598	Power_PV7	U16	0,01	kW		
0599	Voltage_PV8	U16	0,1	V		
059A	Current_PV8	U16	0,01	A		
059B	Power_PV8	U16	0,01	kW		
059C	Voltage_PV9	U16	0,1	V		
059D	Current_PV9	U16	0,01	A		
059E	Power_PV9	U16	0,01	kW		
059F	Voltage_PV10	U16	0,1	V		
05A0	Current_PV10	U16	0,01	A		
05A1	Power_PV10	U16	0,01	kW		
05A2	Voltage_PV11	U16	0,1	V		
05A3	Current_PV11	U16	0,01	A		
05A4	Power_PV11	U16	0,01	kW		

05A5	Voltage_PV12	U16	0,1	V		
05A6	Current_PV12	U16	0,01	A		
05A7	Power_PV12	U16	0,01	kW		
05A8	Voltage_PV13	U16	0,1	V		
05A9	Current_PV13	U16	0,01	A		
05AA	Power_PV13	U16	0,01	kW		
05AB	Voltage_PV14	U16	0,1	V		
05AC	Current_PV14	U16	0,01	A		
05AD	Power_PV14	U16	0,01	kW		
05AE	Voltage_PV15	U16	0,1	V		
05AF	Current_PV15	U16	0,01	A		
05B0	Power_PV15	U16	0,01	kW		
05B1	Voltage_PV16	U16	0,1	V		
05B2	Current_PV16	U16	0,01	A		
05B3	Power_PV16	U16	0,01	kW		
05B4	Reserved					
...						
05BF	Reserved					
05C0	AddressMask_Realtime_Input_PV2	U64				
05C1						
05C2						
05C3						
05C4	Reserved					
...						
05F3	Reserved					

Battery Input						
Address	Definition	Type	Accuracy	Unit	Range	Remarks
0600	AddressMask_Realtime_Input_Bat1	U64				
0601						
0602						
0603						
0604	Voltage_Bat1	U16	0,1	V		
0605	Current_Bat1	I16	0,01	A		
0606	Power_Bat1	I16	0,01	kW		
0607	Temperature_Env_Bat1	I16	1	°C		
0608	SOC_Bat1	U16	1	%		
0609	SOH_Bat1	U16	1	%		
060A	ChargeCycle_Bat1	U16	1	cycle		
060B	Voltage_Bat2	U16	0,1	V		
060C	Current_Bat2	I16	0,01	A		
060D	Power_Bat2	I16	0,01	kW		
060E	Temperature_Env_Bat2	I16	1	°C		
060F	SOC_Bat2	U16	1	%		

0610	SOH_Bat2	U16	1	%		
0611	ChargeCycle_Bat2	U16	1	cycle		
0612	Voltage_Bat3	U16	0,1	V		
0613	Current_Bat3	I16	0,01	A		
0614	Power_Bat3	I16	0,01	kW		
0615	Temperature_Env_Bat3	I16	1	°C		
0616	SOC_Bat3	U16	1	%		
0617	SOH_Bat3	U16	1	%		
0618	ChargeCycle_Bat3	U16	1	cycle		
0619	Voltage_Bat4	U16	0,1	V		
061A	Current_Bat4	I16	0,01	A		
061B	Power_Bat4	I16	0,01	kW		
061C	Temperature_Env_Bat4	I16	1	°C		
061D	SOC_Bat4	U16	1	%		
061E	SOH_Bat4	U16	1	%		
061F	ChargeCycle_Bat4	U16	1	cycle		
0620	Voltage_Bat5	U16	0,1	V		
0621	Current_Bat5	I16	0,01	A		
0622	Power_Bat5	I16	0,01	kW		
0623	Temperature_Env_Bat5	I16	1	°C		
0624	SOC_Bat5	U16	1	%		
0625	SOH_Bat5	U16	1	%		
0626	ChargeCycle_Bat5	U16	1	cycle		
0627	Voltage_Bat6	U16	0,1	V		
0628	Current_Bat6	I16	0,01	A		
0629	Power_Bat6	I16	0,01	kW		
062A	Temperature_Env_Bat6	I16	1	°C		
062B	SOC_Bat6	U16	1	%		
062C	SOH_Bat6	U16	1	%		
062D	ChargeCycle_Bat6	U16	1	cycle		
062E	Voltage_Bat7	U16	0,1	V		
062F	Current_Bat7	I16	0,01	A		
0630	Power_Bat7	I16	0,01	kW		
0631	Temperature_Env_Bat7	I16	1	°C		
0632	SOC_Bat7	U16	1	%		
0633	SOH_Bat7	U16	1	%		
0634	ChargeCycle_Bat7	U16	1	cycle		
0635	Voltage_Bat8	U16	0,1	V		
0636	Current_Bat8	I16	0,01	A		
0637	Power_Bat8	I16	0,01	kW		
0638	Temperature_Env_Bat8	I16	1	°C		
0639	SOC_Bat8	U16	1	%		
063A	SOH_Bat8	U16	1	%		
063B	ChargeCycle_Bat8	U16	1	cycle		
063C	Reserved					

...						
063F	Reserved					
0640	AddressMask_Realtime_Input_Bat2	U64				
0641						
0642						
0643						
0644	Voltage_Bat9	U16	0,1	V		
0645	Current_Bat9	I16	0,01	A		
0646	Power_Bat9	I16	0,01	kW		
0647	Temperature_Env_Bat9	I16	1	°C		
0648	SOC_Bat9	U16	1	%		
0649	SOH_Bat9	U16	1	%		
064A	ChargeCycle_Bat9	U16	1	cycle		
064B	Voltage_Bat10	U16	0,1	V		
064C	Current_Bat10	I16	0,01	A		
064D	Power_Bat10	I16	0,01	kW		
064E	Temperature_Env_Bat10	I16	1	°C		
064F	SOC_Bat10	U16	1	%		
0650	SOH_Bat10	U16	1	%		
0651	ChargeCycle_Bat10	U16	1	cycle		
0652	Voltage_Bat11	U16	0,1	V		
0653	Current_Bat11	I16	0,01	A		
0654	Power_Bat11	I16	0,01	kW		
0655	Temperature_Env_Bat11	I16	1	°C		
0656	SOC_Bat11	U16	1	%		
0657	SOH_Bat11	U16	1	%		
0658	ChargeCycle_Bat11	U16	1	cycle		
0659	Voltage_Bat12	U16	0,1	V		
065A	Current_Bat12	I16	0,01	A		
065B	Power_Bat12	I16	0,01	kW		
065C	Temperature_Env_Bat12	I16	1	°C		
065D	SOC_Bat12	U16	1	%		
065E	SOH_Bat12	U16	1	%		
065F	ChargeCycle_Bat12	U16	1	cycle		

Energy Statistics						
Address	Definition	Type	Accuracy	Unit	Range	Remarks
0680	AddressMask_Realtime_ElectricityStatistics1	U64				
0681						
0682						
0683						
0684	PV_Generation_Today	U32	0,01	kWh		
0685						

0686	PV_Generation_Total	U32	0,1	kWh		
0687						
0688	Load_Consumption_Today	U32	0,01	kWh		
0689						
068A	Load_Consumption_Total	U32	0,1	kWh		
068B						
068C	Energy_Purchase_Today	U32	0,01	kWh		
068D						
068E	Energy_Purchase_Total	U32	0,1	kWh		
068F						
0690	Energy_Selling_Today	U32	0,01	kWh		
0691						
0692	Energy_Selling_Total	U32	0,1	kWh		
0693						
0694	Bat_Charge_Today	U32	0,01	kWh		
0695						
0696	Bat_Charge_Total	U32	0,1	kWh		
0697						
0698	Bat_Discharge_Today	U32	0,01	kWh		
0699						
069A	Bat_Discharge_Total	U32	0,1	kWh		
069B						
069C	Reserved					
...						
06BF	Reserved					

Internal Info						
Address	Definition	Type	Accuracy	Unit	Range	Remarks
06C0	AddressMask_Realtime_ClassifiedInfo1	U64				
06C1						
06C2						
06C3						
06C4	GFCI	U16	1	mA		
06C5	Current_Bus_Balance	I16	0,01	A		
06C6	DCI_R	I16	1	mA		
06C7	DCI_S	I16	1	mA		
06C8	DCI_T	I16	1	mA		
06C9	DCV_R	I16	1	mV		
06CA	DCV_S	I16	1	mV		
06CB	DCV_T	I16	1	mV		
06CC	Voltage_Bus	U16	0,1	V		
06CD	Voltage_Bus_P	U16	0,1	V		
06CE	Voltage_Bus_N	U16	0,1	V		
06CF	Voltage_Bus_LLC	U16	0,1	V		

06D0	Current_BuckBoost	I16	0,01	A		
06D1	Reserved					
...						
06FF	Reserved					

StringComb info						
Address	Definition	Type	Accuracy	Unit	Range	Remarks
0700	AddressMask_Realtime_CombinerInfo1	U64				
0701						
0702						
0703						
0704	Voltage_Group1	U16	0,1	V		
0705	Current_Group1_Branch1	U16	0,01	A		
0706	Current_Group1_Branch2	U16	0,01	A		
0707	Voltage_Group2	U16	0,1	V		
0708	Current_Group2_Branch1	U16	0,01	A		
0709	Current_Group2_Branch2	U16	0,01	A		
070A	Voltage_Group3	U16	0,1	V		
070B	Current_Group3_Branch1	U16	0,01	A		
070C	Current_Group3_Branch2	U16	0,01	A		
070D	Voltage_Group4	U16	0,1	V		
070E	Current_Group4_Branch1	U16	0,01	A		
070F	Current_Group4_Branch2	U16	0,01	A		
0710	Voltage_Group5	U16	0,1	V		
0711	Current_Group5_Branch1	U16	0,01	A		
0712	Current_Group5_Branch2	U16	0,01	A		
0713	Voltage_Group6	U16	0,1	V		
0714	Current_Group6_Branch1	U16	0,01	A		
0715	Current_Group6_Branch2	U16	0,01	A		
0716	Voltage_Group7	U16	0,1	V		
0717	Current_Group7_Branch1	U16	0,01	A		
0718	Current_Group7_Branch2	U16	0,01	A		
0719	Voltage_Group8	U16	0,1	V		
071A	Current_Group8_Branch1	U16	0,01	A		
071B	Current_Group8_Branch2	U16	0,01	A		
071C	Voltage_Group9	U16	0,1	V		
071D	Current_Group9_Branch1	U16	0,01	A		
071E	Current_Group9_Branch2	U16	0,01	A		
071F	Voltage_Group10	U16	0,1	V		
0720	Current_Group10_Branch1	U16	0,01	A		
0721	Current_Group10_Branch2	U16	0,01	A		
0722	Voltage_Group11	U16	0,1	V		
0723	Current_Group11_Branch1	U16	0,01	A		
0724	Current_Group11_Branch2	U16	0,01	A		

0725	Voltage_Group12	U16	0,1	V		
0726	Current_Group12_Branch1	U16	0,01	A		
0727	Current_Group12_Branch2	U16	0,01	A		
0728	Voltage_Group13	U16	0,1	V		
0729	Current_Group13_Branch1	U16	0,01	A		
072A	Current_Group13_Branch2	U16	0,01	A		
072B	Voltage_Group14	U16	0,1	V		
072C	Current_Group14_Branch1	U16	0,01	A		
072D	Current_Group14_Branch2	U16	0,01	A		
072E	Voltage_Group15	U16	0,1	V		
072F	Current_Group15_Branch1	U16	0,01	A		
0730	Current_Group15_Branch2	U16	0,01	A		
0731	Voltage_Group16	U16	0,1	V		
0732	Current_Group16_Branch1	U16	0,01	A		
0733	Current_Group16_Branch2	U16	0,01	A		
0734	Reserved					
...						
073F	Reserved					
0740	AddressMask_Realtime_CombinerInfo1	U64				
0741						
0742						
0743						
0744						
...						
077F						

Basic parameters						
Address	Definition	Type	Accuracy	Unit	Range	Remarks
1000	AddressMask_Config_Basic1	U64				
1001						
1002						
1003						
1004	SysTimeConfig_Year	U16		Year	0-99	
1005	SysTimeConfig_Month	U16		Month	1-12	
1006	SysTimeConfig_Date	U16		Day	1-31	
1007	SysTimeConfig_Hour	U16		Hour	0-23	
1008	SysTimeConfig_Minute	U16		Min	0-59	
1009	SysTimeConfig_Second	U16		s	0-59	
100A	SysTimeConfig_Control	U16			1	
100B	RS485Config_Address	U16			1-247	
100C	RS485Config_Baud	U16			0-4	
100D	RS485Config_StopBit	U16			0-2	
100E	RS485Config_ParityBit	U16			0-4	
100F	RS485Config_Control	U16			1	
1010	PV_InputMode_Config	U16			0-1	

1011	InputType_Channel0_Config	U16			0-255	
1012	InputType_Channel1_Config	U16			0-255	
1013	InputType_Channel2_Config	U16			0-255	
1014	InputType_Channel3_Config	U16			0-255	
1015	InputType_Channel4_Config	U16			0-255	
1016	InputType_Channel5_Config	U16			0-255	
1017	InputType_Channel6_Config	U16			0-255	
1018	InputType_Channel7_Config	U16			0-255	
1019	InputType_Channel8_Config	U16			0-255	
101A	InputType_Channel9_Config	U16			0-255	
101B	InputType_Channel10_Config	U16			0-255	
101C	InputType_Channel11_Config	U16			0-255	
101D	InputType_Channel12_Config	U16			0-255	
101E	InputType_Channel13_Config	U16			0-255	
101F	InputType_Channel14_Config	U16			0-255	
1020	InputType_Channel15_Config	U16			0-255	
1021	InputType_Control	U16			1	
1022	SafetyUpdateFromUSB_Control	U16			1	
1023	AntiReflux_Control	U16			0-1	
1024	AntiReflux_Power	U16	1	%Pn	0-65535	
1025	IVCurveScan_Control	U16			0-1	
1026	IVCurveScan_Period	U16	1	min	5-65535	
1027	IVCurveScan_Oneshot	U16			1	
1028	IVCurveScan_ReadChannel	U16			0-31	
1029	EPS_Control	U16			0-2	
102A	EPS_WaitTime	U16	1	s	0-65535	
102B	BatteryActive_Control	U16			0-1	
102C	BatteryActive_Oneshot	U16			1	
102D	CT_Auto_Calibrate	U16			1	
102E	Italy_AutoTest	U16			1-2	
102F		U16				
1030	EnergyStatistics_Date_Year	U16	1	year	0-19	
1031	EnergyStatistics_Date_Month	U16	1	month	1-12	
1032	EnergyStatistics_Date_Date	U16	1	day	1-31	
1033	EnergyStatistics_Config	U16				
1034	Language	U16			0-65535	
1035	Parallel_Control	U16			0-1	
1036	Parallel_Master_Slave	U16			0-1	
1037	Parallel_Address	U16			0-10	
1038	Reserved					
...						
103F	Reserved					
1040						
1041	AddressMask_Config_Basic2	U64				
1042						

1043						
1044	BatConfig_ID	U16			0-7	
1045	BatConfig_Address	U16				
1046	BatConfig_Potocol	U16			0-65535	
1047	BatConfig_Voltage_Over	U16	0,1	V	0-65535	
1048	BatConfig_Voltage_Charge	U16	0,1	V	0-65535	
1049	BatConfig_Voltage_Lack	U16	0,1	V	0-65535	
104A	BatConfig_Voltage_Discharge_Stop	U16	0,1	V	0-65535	
104B	BatConfig_Current_Charge_Limit	U16	0,01	A	0-65535	
104C	BatConfig_Current_Discharge_Limit	U16	0,01	A	0-65535	
104D	BatConfig_Depth_of_Discharge	U16	1	%	1-90	
104E	BatConfig_End_of_Discharge	U16	1	%	1-90	
104F	BatConfig_Capacity	U16	1	Ah	1-65535	
1050	BatConfig_Voltage_Nominal	U16	0,01	V	0-65535	
1051	BatConfig_Cell_Type	U16	1		0-3	
1052	BatConfig_Impedance	U16	1	mΩ	0-65535	
1053	BatConfig_Control	U16				
1054	Reserved					
...						
107F	Reserved					

Remote control						
Address	Definition	Type	Accuracy	Unit	Range	Remarks
1100	AddressMask_Config_Remote1	U64				
1101						
1102						
1103						
1104	Remote_On_Off_Control	U16			0-1	
1105	Reserved					
...						
110F	Reserved					
1110	Energy_Storage_Mode_Control	U16			0-4	4
1111	Timing_ID	U16			0-3	3
1112	Timing_On_Off_Control	U16			0-1	1
1113	Timing_Charge_Start	U16	1 1	Hour min	0-23 0-59	
1114	Timing_Charge_End	U16	1 1	Hour min	0-23 0-59	
1115	Timing_Discharge_Start	U16	1 1	Hour min	0-23 0-59	
1116	Timing_Discharge_End	U16	1 1	Hour min	0-23 0-59	
1117	Timing_Power_Charge	U32	1	W	1-4294967296	

1118						
1119	Timing_Power_Discharge	U32	1	W	1-4294967296	
111A						
111B	Timing_Rsvd1					
111C	Timing_Rsvd2					
111D	Timing_Rsvd3					
111E	Timing_Rsvd4					
111F	Timing_Control	U16			1	
1120	TOU_ID	U16			0-7	
1121	TOU_On_Off_Control	U16			0-1	
1122	TOU_Charge_Start	U16	1	Hour	0-23	
			1	min	0-59	
1123	TOU_Charge_End	U16	1	Hour	0-23	
			1	min	0-59	
1124	TOU_Charge_Target_SOC	U16	1	%	30-100	
1125	TOU_Charge_Power	U32	1	W	1-4294967296	
1126						
1127	TOU_Executed_Date_Start	U16	1	mont	1-12	
			1	h day	1-31	
1128	TOU_Executed_Date_End	U16	1	mont	1-12	
			1	h day	1-31	
1129	TOU_Executed_Day_of_Week	U16				
112A	TOU_Rsvd1					
112B	TOU_Rsvd2					
112C	TOU_Rsvd3					
112D	TOU_Rsvd4					
112E	TOU_Rsvd5					
112F	TOU_Control	U16			1	
1130	Peak_Shaving_Discharge_Threshold	U32	1	W	100	
1131						
1132	Peak_Shaving_Charge_Threshold	U32	1	W	100	
1133						
1134	Reserved					
...						
113F	Reserved					
1140	AddressMask_Config_Remote1	U64				
1141						
1142						
1143						
1144	Reserved					
...						
117F	Reserved					
1180	AddressMask_Config_Remote3	U64				
1181						

1182						
1183						
1184	Passive_Timeout	U16	1	s	0-65535	
1185	Passive_Timeout_Action	U16			0-1	
1186	Passive_Rsvd1					
1187	Passive_Manual_Gdes	I32	1	W	-2147483648	
1188					+2147483647	
1189	Passive_Manual_Blo	I32	1	W	-2147483648	
118A					+2147483647	
118B	Passive_Manual_Bup	I32	1	W	-2147483648	
118C					+2147483647	
118D	Passive_Manual_Gdzup	I32	1	W	-2147483648	
118E					+2147483647	
118F	Passive_Manual_Gdzlo	I32	1	W	-2147483648	
1190					+2147483647	
1191	Passive_Scheduler_Gdes_Ante	I32	1	W	-2147483648	
1192					+2147483647	
1193	Passive_Scheduler_Blo_Ante	I32	1	W	-2147483648	
1194					+2147483647	
1195	Passive_Scheduler_Bup_Ante	I32	1	W	-2147483648	
1196					+2147483647	
1197	Passive_Scheduler_Gdzup_Ante	I32	1	W	-2147483648	
1198					+2147483647	
1199	Passive_Scheduler_Gdzlo_Ante	I32	1	W	-2147483648	
119A					+2147483647	
119B	Passive_Scheduler_Gdes_Post	I32	1	W	-2147483648	
119C					+2147483647	
119D	Passive_Scheduler_Blo_Post	I32	1	W	-2147483648	
119E					+2147483647	
119F	Passive_Scheduler_Bup_Post	I32	1	W	-2147483648	
11A0					+2147483647	
11A1	Passive_Scheduler_Gdzup_Post	I32	1	W	-2147483648	
11A2					+2147483647	
11A3	Passive_Scheduler_Gdzlo_Post	I32	1	W	-2147483648	
11A4					+2147483647	
11A5	Passive_Scheduler_StartTime	U32	1	s	0-4294967296	
11A6						
11A7	Passive_Scheduler_DurationTime	U32	1	s	0-4294967296	
11A8						
11A9	Passive_Scheduler_ManagementMode	U16			0-2	
11AA	Reserved					
...						
11BF	Reserved					
11C0	AddressMask_Config_Remote4	U64				

11C1						
11C2						
11C3						
11C4	Reserved					
11C5	Reserved					

Results Autotest						
Addresses	Definition	Type	Accuracy	Unit	Range	Remarks
1300	AddressMask_Config_ReadOnly_Result1	U64				
1301						
1302						
1303						
1304	Italy_Autotest_Result1	U16	0,1	V		
1305	Italy_Autotest_Result2	U16	1	ms		
1306	Italy_Autotest_Result3	U16	0,1	V		
1307	Italy_Autotest_Result4	U16	1	ms		
1308	Italy_Autotest_Result5	U16	0,1	V		
1309	Italy_Autotest_Result6	U16	1	ms		
130A	Italy_Autotest_Result7	U16	0,1	V		
130B	Italy_Autotest_Result8	U16	1	ms		
130C	Italy_Autotest_Result9	U16	0,1	V		
130D	Italy_Autotest_Result10	U16	1	ms		
130E	Italy_Autotest_Result11	U16	0,1	V		
130F	Italy_Autotest_Result12	U16	1	ms		
1310	Italy_Autotest_Result13	U16	0,1	V		
1311	Italy_Autotest_Result14	U16	1	ms		
1312	Italy_Autotest_Result15	U16	0,1	V		
1313	Italy_Autotest_Result16	U16	1	ms		
1314	Italy_Autotest_Result17	U16	0,01	Hz		
1315	Italy_Autotest_Result18	U16	1	ms		
1316	Italy_Autotest_Result19	U16	0,01	Hz		
1317	Italy_Autotest_Result20	U16	1	ms		
1318	Italy_Autotest_Result21	U16	0,01	Hz		
1319	Italy_Autotest_Result22	U16	1	ms		
131A	Italy_Autotest_Result23	U16	0,01	Hz		
131B	Italy_Autotest_Result24	U16	1	ms		
131C	Italy_Autotest_Result25	U16	0,01	Hz		
131D	Italy_Autotest_Result26	U16	1	ms		
131E	Italy_Autotest_Result27	U16	0,01	Hz		
131F	Italy_Autotest_Result28	U16	1	ms		
1320	Italy_Autotest_Result29	U16	0,01	Hz		
1321	Italy_Autotest_Result30	U16	1	ms		
1322	Italy_Autotest_Result31	U16	0,01	Hz		
1323	Italy_Autotest_Result32	U16	1	ms		

1324	Italy_Autotest_Result33					
1325	Italy_Autotest_Result34					
1326	Italy_Autotest_Result35					
1327	Italy_Autotest_Result36					
1328	Italy_Autotest_Result37					
1329	Italy_Autotest_Result38					
132A	Italy_Autotest_Result39					
132B	Italy_Autotest_Result40					
132C	Italy_Autotest_Result41					
132D	Italy_Autotest_Result42					
132E	Italy_Autotest_Result43					
132F	Italy_Autotest_Result44					
1330	Italy_Autotest_Result45					
1331	Italy_Autotest_Result46					
1332	Italy_Autotest_Result47					
1333	Italy_Autotest_Result48					
1340	AddressMask_Config_ReadOnly_Result2	U64				
1341						
1342						
1343						
1344	IVCurve_Voltage1	U16	0,1	V		
1345	IVCurve_Current1	U16	0,01	A		
1346	IVCurve_Voltage2	U16	0,1	V		
1347	IVCurve_Current2	U16	0,01	A		
1348	IVCurve_Voltage3	U16	0,1	V		
1349	IVCurve_Current3	U16	0,01	A		
134A	IVCurve_Voltage4	U16	0,1	V		
134B	IVCurve_Current4	U16	0,01	A		
134C	IVCurve_Voltage5	U16	0,1	V		
134D	IVCurve_Current5	U16	0,01	A		
134E	IVCurve_Voltage6	U16	0,1	V		
134F	IVCurve_Current6	U16	0,01	A		
1350	IVCurve_Voltage7	U16	0,1	V		
1351	IVCurve_Current7	U16	0,01	A		
1352	IVCurve_Voltage8	U16	0,1	V		
1353	IVCurve_Current8	U16	0,01	A		
1354	IVCurve_Voltage9	U16	0,1	V		
1355	IVCurve_Current9	U16	0,01	A		
1356	IVCurve_Voltage10	U16	0,1	V		
1357	IVCurve_Current10	U16	0,01	A		
1358	IVCurve_Voltage11	U16	0,1	V		
1359	IVCurve_Current11	U16	0,01	A		
135A	IVCurve_Voltage12	U16	0,1	V		
135B	IVCurve_Current12	U16	0,01	A		
135C	IVCurve_Voltage13	U16	0,1	V		

135D	IVCurve_Current13	U16	0,01	A		
135E	IVCurve_Voltage14	U16	0,1	V		
135F	IVCurve_Current14	U16	0,01	A		
1360	IVCurve_Voltage15	U16	0,1	V		
1361	IVCurve_Current15	U16	0,01	A		
1362	IVCurve_Voltage16	U16	0,1	V		
1363	IVCurve_Current16	U16	0,01	A		
1364	IVCurve_Voltage17	U16	0,1	V		
1365	IVCurve_Current17	U16	0,01	A		
1366	IVCurve_Voltage18	U16	0,1	V		
1367	IVCurve_Current18	U16	0,01	A		
1368	IVCurve_Voltage19	U16	0,1	V		
1369	IVCurve_Current19	U16	0,01	A		
136A	IVCurve_Voltage20	U16	0,1	V		
136B	IVCurve_Current20	U16	0,01	A		
136C	IVCurve_Voltage21	U16	0,1	V		
136D	IVCurve_Current21	U16	0,01	A		
136E	IVCurve_Voltage22	U16	0,1	V		
136F	IVCurve_Current22	U16	0,01	A		
1370	IVCurve_Voltage23	U16	0,1	V		
1371	IVCurve_Current23	U16	0,01	A		
1372	IVCurve_Voltage24	U16	0,1	V		
1373	IVCurve_Current24	U16	0,01	A		
1374	IVCurve_Voltage25	U16	0,1	V		
1375	IVCurve_Current25	U16	0,01	A		
1376	IVCurve_Voltage26	U16	0,1	V		
1377	IVCurve_Current26	U16	0,01	A		
1378	IVCurve_Voltage27	U16	0,1	V		
1379	IVCurve_Current27	U16	0,01	A		
137A	IVCurve_Voltage28	U16	0,1	V		
137B	IVCurve_Current28	U16	0,01	A		
137C	IVCurve_Voltage29	U16	0,1	V		
137D	IVCurve_Current29	U16	0,01	A		
137E	IVCurve_Voltage30	U16	0,1	V		
137F	IVCurve_Current30	U16	0,01	A		
1380						
1381	AddressMask_Config_ReadOnly_Results3	U64				
1382						
1383						
1384	IVCurve_Voltage31	U16	0,1	V		
1385	IVCurve_Current31	U16	0,01	A		
1386	IVCurve_Voltage32	U16	0,1	V		
1387	IVCurve_Current32	U16	0,01	A		
1388	IVCurve_Voltage33	U16	0,1	V		
1389	IVCurve_Current33	U16	0,01	A		

138A	IVCurve_Voltage34	U16	0,1	V		
138B	IVCurve_Current34	U16	0,01	A		
138C	IVCurve_Voltage35	U16	0,1	V		
138D	IVCurve_Current35	U16	0,01	A		
138E	IVCurve_Voltage36	U16	0,1	V		
138F	IVCurve_Current36	U16	0,01	A		
1390	IVCurve_Voltage37	U16	0,1	V		
1391	IVCurve_Current37	U16	0,01	A		
1392	IVCurve_Voltage38	U16	0,1	V		
1393	IVCurve_Current38	U16	0,01	A		
1394	IVCurve_Voltage39	U16	0,1	V		
1395	IVCurve_Current39	U16	0,01	A		
1396	IVCurve_Voltage40	U16	0,1	V		
1397	IVCurve_Current40	U16	0,01	A		
1398	IVCurve_Voltage41	U16	0,1	V		
1399	IVCurve_Current41	U16	0,01	A		
139A	IVCurve_Voltage42	U16	0,1	V		
139B	IVCurve_Current42	U16	0,01	A		
139C	IVCurve_Voltage43	U16	0,1	V		
139D	IVCurve_Current43	U16	0,01	A		
139E	IVCurve_Voltage44	U16	0,1	V		
139F	IVCurve_Current44	U16	0,01	A		
13A0	IVCurve_Voltage45	U16	0,1	V		
13A1	IVCurve_Current45	U16	0,01	A		
13A2	IVCurve_Voltage46	U16	0,1	V		
13A3	IVCurve_Current46	U16	0,01	A		
13A4	IVCurve_Voltage47	U16	0,1	V		
13A5	IVCurve_Current47	U16	0,01	A		
13A6	IVCurve_Voltage48	U16	0,1	V		
13A7	IVCurve_Current48	U16	0,01	A		
13A8	IVCurve_Voltage49	U16	0,1	V		
13A9	IVCurve_Current49	U16	0,01	A		
13AA	IVCurve_Voltage50	U16	0,1	V		
13AB	IVCurve_Current50	U16	0,01	A		
13AC	IVCurve_Voltage51	U16	0,1	V		
13AD	IVCurve_Current51	U16	0,01	A		
13AE	IVCurve_Voltage52	U16	0,1	V		
13AF	IVCurve_Current52	U16	0,01	A		
13B0	IVCurve_Voltage53	U16	0,1	V		
13B1	IVCurve_Current53	U16	0,01	A		
13B2	IVCurve_Voltage54	U16	0,1	V		
13B3	IVCurve_Current54	U16	0,01	A		
13B4	IVCurve_Voltage55	U16	0,1	V		
13B5	IVCurve_Current55	U16	0,01	A		
13B6	IVCurve_Voltage56	U16	0,1	V		

13B7	IVCurve_Current56	U16	0,01	A		
13B8	IVCurve_Voltage57	U16	0,1	V		
13B9	IVCurve_Current57	U16	0,01	A		
13BA	IVCurve_Voltage58	U16	0,1	V		
13BB	IVCurve_Current58	U16	0,01	A		
13BC	IVCurve_Voltage59	U16	0,1	V		
13BD	IVCurve_Current59	U16	0,01	A		
13BE	IVCurve_Voltage60	U16	0,1	V		
13BF	IVCurve_Current60	U16	0,01	A		
13C0	AddressMask_Config_ReadOnly_Re sult4	U64				
13C1						
13C2						
13C3						
13C4	IVCurve_Voltage61	U16	0,1	V		
13C5	IVCurve_Current61	U16	0,01	A		
13C6	IVCurve_Voltage62	U16	0,1	V		
13C7	IVCurve_Current62	U16	0,01	A		
13C8	IVCurve_Voltage63	U16	0,1	V		
13C9	IVCurve_Current63	U16	0,01	A		
13CA	IVCurve_Voltage64	U16	0,1	V		
13CB	IVCurve_Current64	U16	0,01	A		
13CC	IVCurve_Voltage65	U16	0,1	V		
13CD	IVCurve_Current65	U16	0,01	A		
13CE	IVCurve_Voltage66	U16	0,1	V		
13CF	IVCurve_Current66	U16	0,01	A		
13D0	IVCurve_Voltage67	U16	0,1	V		
13D1	IVCurve_Current67	U16	0,01	A		
13D2	IVCurve_Voltage68	U16	0,1	V		
13D3	IVCurve_Current68	U16	0,01	A		
13D4	IVCurve_Voltage69	U16	0,1	V		
13D5	IVCurve_Current69	U16	0,01	A		
13D6	IVCurve_Voltage70	U16	0,1	V		
13D7	IVCurve_Current70	U16	0,01	A		
13D8	IVCurve_Voltage71	U16	0,1	V		
13D9	IVCurve_Current71	U16	0,01	A		
13DA	IVCurve_Voltage72	U16	0,1	V		
13DB	IVCurve_Current72	U16	0,01	A		
13DC	IVCurve_Voltage73	U16	0,1	V		
13DD	IVCurve_Current73	U16	0,01	A		
13DE	IVCurve_Voltage74	U16	0,1	V		
13DF	IVCurve_Current74	U16	0,01	A		
13E0	IVCurve_Voltage75	U16	0,1	V		
13E1	IVCurve_Current75	U16	0,01	A		
13E2	IVCurve_Voltage76	U16	0,1	V		
13E3	IVCurve_Current76	U16	0,01	A		

13E4	IVCurve_Voltage77	U16	0,1	V		
13E5	IVCurve_Current77	U16	0,01	A		
13E6	IVCurve_Voltage78	U16	0,1	V		
13E7	IVCurve_Current78	U16	0,01	A		
13E8	IVCurve_Voltage79	U16	0,1	V		
13E9	IVCurve_Current79	U16	0,01	A		
13EA	IVCurve_Voltage80	U16	0,1	V		
13EB	IVCurve_Current80	U16	0,01	A		
13EC	IVCurve_Voltage81	U16	0,1	V		
13ED	IVCurve_Current81	U16	0,01	A		
13EE	IVCurve_Voltage82	U16	0,1	V		
13EF	IVCurve_Current82	U16	0,01	A		
13F0	IVCurve_Voltage83	U16	0,1	V		
13F1	IVCurve_Current83	U16	0,01	A		
13F2	IVCurve_Voltage84	U16	0,1	V		
13F3	IVCurve_Current84	U16	0,01	A		
13F4	IVCurve_Voltage85	U16	0,1	V		
13F5	IVCurve_Current85	U16	0,01	A		
13F6	IVCurve_Voltage86	U16	0,1	V		
13F7	IVCurve_Current86	U16	0,01	A		
13F8	IVCurve_Voltage87	U16	0,1	V		
13F9	IVCurve_Current87	U16	0,01	A		
13FA	IVCurve_Voltage88	U16	0,1	V		
13FB	IVCurve_Current88	U16	0,01	A		
13FC	IVCurve_Voltage89	U16	0,1	V		
13FD	IVCurve_Current89	U16	0,01	A		
13FE	IVCurve_Voltage90	U16	0,1	V		
13FF	IVCurve_Current90	U16	0,01	A		
1400						
1401	AddressMask_Config_ReadOnly_Re sult5	U64				
1402						
1403						
1404	IVCurve_Voltage91	U16	0,1	V		
1405	IVCurve_Current91	U16	0,01	A		
1406	IVCurve_Voltage92	U16	0,1	V		
1407	IVCurve_Current92	U16	0,01	A		
1408	IVCurve_Voltage93	U16	0,1	V		
1409	IVCurve_Current93	U16	0,01	A		
140A	IVCurve_Voltage94	U16	0,1	V		
140B	IVCurve_Current94	U16	0,01	A		
140C	IVCurve_Voltage95	U16	0,1	V		
140D	IVCurve_Current95	U16	0,01	A		
140E	IVCurve_Voltage96	U16	0,1	V		
140F	IVCurve_Current96	U16	0,01	A		
1410	IVCurve_Voltage97	U16	0,1	V		

1411	IVCurve_Current97	U16	0,01	A		
1412	IVCurve_Voltage98	U16	0,1	V		
1413	IVCurve_Current98	U16	0,01	A		
1414	IVCurve_Voltage99	U16	0,1	V		
1415	IVCurve_Current99	U16	0,01	A		
1416	IVCurve_Voltage100	U16	0,1	V		
1417	IVCurve_Current100	U16	0,01	A		
1418	IVCurve_Voltage101	U16	0,1	V		
1419	IVCurve_Current101	U16	0,01	A		
141A	IVCurve_Voltage102	U16	0,1	V		
141B	IVCurve_Current102	U16	0,01	A		
141C	IVCurve_Voltage103	U16	0,1	V		
141D	IVCurve_Current103	U16	0,01	A		
141E	IVCurve_Voltage104	U16	0,1	V		
141F	IVCurve_Current104	U16	0,01	A		
1420	IVCurve_Voltage105	U16	0,1	V		
1421	IVCurve_Current105	U16	0,01	A		
1422	IVCurve_Voltage106	U16	0,1	V		
1423	IVCurve_Current106	U16	0,01	A		
1424	IVCurve_Voltage107	U16	0,1	V		
1425	IVCurve_Current107	U16	0,01	A		
1426	IVCurve_Voltage108	U16	0,1	V		
1427	IVCurve_Current108	U16	0,01	A		
1428	IVCurve_Voltage109	U16	0,1	V		
1429	IVCurve_Current109	U16	0,01	A		
142A	IVCurve_Voltage110	U16	0,1	V		
142B	IVCurve_Current110	U16	0,01	A		
142C	IVCurve_Voltage111	U16	0,1	V		
142D	IVCurve_Current111	U16	0,01	A		
142E	IVCurve_Voltage112	U16	0,1	V		
142F	IVCurve_Current112	U16	0,01	A		
1430	IVCurve_Voltage113	U16	0,1	V		
1431	IVCurve_Current113	U16	0,01	A		
1432	IVCurve_Voltage114	U16	0,1	V		
1433	IVCurve_Current114	U16	0,01	A		
1434	IVCurve_Voltage115	U16	0,1	V		
1435	IVCurve_Current115	U16	0,01	A		
1436	IVCurve_Voltage116	U16	0,1	V		
1437	IVCurve_Current116	U16	0,01	A		
1438	IVCurve_Voltage117	U16	0,1	V		
1439	IVCurve_Current117	U16	0,01	A		
143A	IVCurve_Voltage118	U16	0,1	V		
143B	IVCurve_Current118	U16	0,01	A		
143C	IVCurve_Voltage119	U16	0,1	V		
143D	IVCurve_Current119	U16	0,01	A		

143E	IVCurve_Voltage120	U16	0,1	V		
143F	IVCurve_Current120	U16	0,01	A		
1440	AddressMask_Config_ReadOnly_Result6	U64				
1441						
1442						
1443						
1444	IVCurve_Voltage121	U16	0,1	V		
1445	IVCurve_Current121	U16	0,01	A		
1446	IVCurve_Voltage122	U16	0,1	V		
1447	IVCurve_Current122	U16	0,01	A		
1448	IVCurve_Voltage123	U16	0,1	V		
1449	IVCurve_Current123	U16	0,01	A		
144A	IVCurve_Voltage124	U16	0,1	V		
144B	IVCurve_Current124	U16	0,01	A		
144C	IVCurve_Voltage125	U16	0,1	V		
144D	IVCurve_Current125	U16	0,01	A		
144E	IVCurve_Voltage126	U16	0,1	V		
144F	IVCurve_Current126	U16	0,01	A		
1450	IVCurve_Voltage127	U16	0,1	V		
1451	IVCurve_Current127	U16	0,01	A		
1452	IVCurve_Voltage128	U16	0,1	V		
1453	IVCurve_Current128	U16	0,01	A		
1454	IVCurve_Voltage129	U16	0,1	V		
1455	IVCurve_Current129	U16	0,01	A		
1456	IVCurve_Voltage130	U16	0,1	V		
1457	IVCurve_Current130	U16	0,01	A		
1458	IVCurve_Voltage131	U16	0,1	V		
1459	IVCurve_Current131	U16	0,01	A		
145A	IVCurve_Voltage132	U16	0,1	V		
145B	IVCurve_Current132	U16	0,01	A		
145C	IVCurve_Voltage133	U16	0,1	V		
145D	IVCurve_Current133	U16	0,01	A		
145E	IVCurve_Voltage134	U16	0,1	V		
145F	IVCurve_Current134	U16	0,01	A		
1460	IVCurve_Voltage135	U16	0,1	V		
1461	IVCurve_Current135	U16	0,01	A		
1462	IVCurve_Voltage136	U16	0,1	V		
1463	IVCurve_Current136	U16	0,01	A		
1464	IVCurve_Voltage137	U16	0,1	V		
1465	IVCurve_Current137	U16	0,01	A		
1466	IVCurve_Voltage138	U16	0,1	V		
1467	IVCurve_Current138	U16	0,01	A		
1468	IVCurve_Voltage139	U16	0,1	V		
1469	IVCurve_Current139	U16	0,01	A		
146A	IVCurve_Voltage140	U16	0,1	V		

146B	IVCurve_Current140	U16	0,01	A		
146C	IVCurve_Voltage141	U16	0,1	V		
146D	IVCurve_Current141	U16	0,01	A		
146E	IVCurve_Voltage142	U16	0,1	V		
146F	IVCurve_Current142	U16	0,01	A		
1470	IVCurve_Voltage143	U16	0,1	V		
1471	IVCurve_Current143	U16	0,01	A		
1472	IVCurve_Voltage144	U16	0,1	V		
1473	IVCurve_Current144	U16	0,01	A		
1474	IVCurve_Voltage145	U16	0,1	V		
1475	IVCurve_Current145	U16	0,01	A		
1476	IVCurve_Voltage146	U16	0,1	V		
1477	IVCurve_Current146	U16	0,01	A		
1478	IVCurve_Voltage147	U16	0,1	V		
1479	IVCurve_Current147	U16	0,01	A		
147A	IVCurve_Voltage148	U16	0,1	V		
147B	IVCurve_Current148	U16	0,01	A		
147C	IVCurve_Voltage149	U16	0,1	V		
147D	IVCurve_Current149	U16	0,01	A		
147E	IVCurve_Voltage150	U16	0,1	V		
147F	IVCurve_Current150	U16	0,01	A		
1480	HistoryEventList_ID1	U16				
1481	HistoryEventList_yM1	U16				
1482	HistoryEventList_dH1	U16				
1483	HistoryEventList_ms1	U16				
1484	HistoryEventList_ID2	U16				
1485	HistoryEventList_yM2	U16				
1486	HistoryEventList_dH2	U16				
1487	HistoryEventList_ms2	U16				
1488	HistoryEventList_ID3	U16				
1489	HistoryEventList_yM3	U16				
148A	HistoryEventList_dH3	U16				
148B	HistoryEventList_ms3	U16				
148C	HistoryEventList_ID4	U16				
148D	HistoryEventList_yM4	U16				
148E	HistoryEventList_dH4	U16				
148F	HistoryEventList_ms4	U16				
1490	HistoryEventList_ID5	U16				
1491	HistoryEventList_yM5	U16				
1492	HistoryEventList_dH5	U16				
1493	HistoryEventList_ms5	U16				
1494	HistoryEventList_ID6	U16				
1495	HistoryEventList_yM6	U16				
1496	HistoryEventList_dH6	U16				
1497	HistoryEventList_ms6	U16				

1498	HistoryEventList_ID7	U16				
1499	HistoryEventList_yM7	U16				
149A	HistoryEventList_dH7	U16				
149B	HistoryEventList_ms7	U16				
149C	HistoryEventList_ID8	U16				
149D	HistoryEventList_yM8	U16				
149E	HistoryEventList_dH8	U16				
149F	HistoryEventList_ms8	U16				
14A0	HistoryEventList_ID9	U16				
14A1	HistoryEventList_yM9	U16				
14A2	HistoryEventList_dH9	U16				
14A3	HistoryEventList_ms9	U16				
14A4	HistoryEventList_ID10	U16				
14A5	HistoryEventList_yM10	U16				
14A6	HistoryEventList_dH10	U16				
14A7	HistoryEventList_ms10	U16				
14A8	HistoryEventList_ID11	U16				
14A9	HistoryEventList_yM11	U16				
14AA	HistoryEventList_dH11	U16				
14AB	HistoryEventList_ms11	U16				
14AC	HistoryEventList_ID12	U16				
14AD	HistoryEventList_yM12	U16				
14AE	HistoryEventList_dH12	U16				
14AF	HistoryEventList_ms12	U16				
14B0	HistoryEventList_ID13	U16				
14B1	HistoryEventList_yM13	U16				
14B2	HistoryEventList_dH13	U16				
14B3	HistoryEventList_ms13	U16				
14B4	HistoryEventList_ID14	U16				
14B5	HistoryEventList_yM14	U16				
14B6	HistoryEventList_dH14	U16				
14B7	HistoryEventList_ms14	U16				
14B8	HistoryEventList_ID15	U16				
14B9	HistoryEventList_yM15	U16				
14BA	HistoryEventList_dH15	U16				
14BB	HistoryEventList_ms15	U16				
14BC	HistoryEventList_ID16	U16				
14BD	HistoryEventList_yM16	U16				
14BE	HistoryEventList_dH16	U16				
14BF	HistoryEventList_ms16	U16				
14C0	HistoryEventList_ID17	U16				
14C1	HistoryEventList_yM17	U16				
14C2	HistoryEventList_dH17	U16				
14C3	HistoryEventList_ms17	U16				
14C4	HistoryEventList_ID18	U16				

14C5	HistoryEventList_yM18	U16				
14C6	HistoryEventList_dH18	U16				
14C7	HistoryEventList_ms18	U16				
14C8	HistoryEventList_ID19	U16				
14C9	HistoryEventList_yM19	U16				
14CA	HistoryEventList_dH19	U16				
14CB	HistoryEventList_ms19	U16				
14CC	HistoryEventList_ID20	U16				
14CD	HistoryEventList_yM20	U16				
14CE	HistoryEventList_dH20	U16				
14CF	HistoryEventList_ms20	U16				
14D0	HistoryEventList_ID21	U16				
14D1	HistoryEventList_yM21	U16				
14D2	HistoryEventList_dH21	U16				
14D3	HistoryEventList_ms21	U16				
14D4	HistoryEventList_ID22	U16				
14D5	HistoryEventList_yM22	U16				
14D6	HistoryEventList_dH22	U16				
14D7	HistoryEventList_ms22	U16				
14D8	HistoryEventList_ID23	U16				
14D9	HistoryEventList_yM23	U16				
14DA	HistoryEventList_dH23	U16				
14DB	HistoryEventList_ms23	U16				
14DC	HistoryEventList_ID24	U16				
14DD	HistoryEventList_yM24	U16				
14DE	HistoryEventList_dH24	U16				
14DF	HistoryEventList_ms24	U16				
14E0	HistoryEventList_ID25	U16				
14E1	HistoryEventList_yM25	U16				
14E2	HistoryEventList_dH25	U16				
14E3	HistoryEventList_ms25	U16				
14E4	HistoryEventList_ID26	U16				
14E5	HistoryEventList_yM26	U16				
14E6	HistoryEventList_dH26	U16				
14E7	HistoryEventList_ms26	U16				
14E8	HistoryEventList_ID27	U16				
14E9	HistoryEventList_yM27	U16				
14EA	HistoryEventList_dH27	U16				
14EB	HistoryEventList_ms27	U16				
14EC	HistoryEventList_ID28	U16				
14ED	HistoryEventList_yM28	U16				
14EE	HistoryEventList_dH28	U16				
14EF	HistoryEventList_ms28	U16				
14F0	HistoryEventList_ID29	U16				
14F1	HistoryEventList_yM29	U16				

14F2	HistoryEventList_dH29	U16				
14F3	HistoryEventList_ms29	U16				
14F4	HistoryEventList_ID30	U16				
14F5	HistoryEventList_yM30	U16				
14F6	HistoryEventList_dH30	U16				
14F7	HistoryEventList_ms30	U16				
14F8	HistoryEventList_ID31	U16				
14F9	HistoryEventList_yM31	U16				
14FA	HistoryEventList_dH31	U16				
14FB	HistoryEventList_ms31	U16				
14FC	HistoryEventList_ID32	U16				
14FD	HistoryEventList_yM32	U16				
14FE	HistoryEventList_dH32	U16				
14FF	HistoryEventList_ms32	U16				
1500	HistoryEventList_ID33	U16				
1501	HistoryEventList_yM33	U16				
1502	HistoryEventList_dH33	U16				
1503	HistoryEventList_ms33	U16				
1504	HistoryEventList_ID34	U16				
1505	HistoryEventList_yM34	U16				
1506	HistoryEventList_dH34	U16				
1507	HistoryEventList_ms34	U16				
1508	HistoryEventList_ID35	U16				
1509	HistoryEventList_yM35	U16				
150A	HistoryEventList_dH35	U16				
150B	HistoryEventList_ms35	U16				
150C	HistoryEventList_ID36	U16				
150D	HistoryEventList_yM36	U16				
150E	HistoryEventList_dH36	U16				
150F	HistoryEventList_ms36	U16				
1510	HistoryEventList_ID37	U16				
1511	HistoryEventList_yM37	U16				
1512	HistoryEventList_dH37	U16				
1513	HistoryEventList_ms37	U16				
1514	HistoryEventList_ID38	U16				
1515	HistoryEventList_yM38	U16				
1516	HistoryEventList_dH38	U16				
1517	HistoryEventList_ms38	U16				
1518	HistoryEventList_ID39	U16				
1519	HistoryEventList_yM39	U16				
151A	HistoryEventList_dH39	U16				
151B	HistoryEventList_ms39	U16				
151C	HistoryEventList_ID40	U16				
151D	HistoryEventList_yM40	U16				
151E	HistoryEventList_dH40	U16				

151F	HistoryEventList_ms40	U16				
1520	HistoryEventList_ID41	U16				
1521	HistoryEventList_yM41	U16				
1522	HistoryEventList_dH41	U16				
1523	HistoryEventList_ms41	U16				
1524	HistoryEventList_ID42	U16				
1525	HistoryEventList_yM42	U16				
1526	HistoryEventList_dH42	U16				
1527	HistoryEventList_ms42	U16				
1528	HistoryEventList_ID43	U16				
1529	HistoryEventList_yM43	U16				
152A	HistoryEventList_dH43	U16				
152B	HistoryEventList_ms43	U16				
152C	HistoryEventList_ID44	U16				
152D	HistoryEventList_yM44	U16				
152E	HistoryEventList_dH44	U16				
152F	HistoryEventList_ms44	U16				
1530	HistoryEventList_ID45	U16				
1531	HistoryEventList_yM45	U16				
1532	HistoryEventList_dH45	U16				
1533	HistoryEventList_ms45	U16				
1534	HistoryEventList_ID46	U16				
1535	HistoryEventList_yM46	U16				
1536	HistoryEventList_dH46	U16				
1537	HistoryEventList_ms46	U16				
1538	HistoryEventList_ID47	U16				
1539	HistoryEventList_yM47	U16				
153A	HistoryEventList_dH47	U16				
153B	HistoryEventList_ms47	U16				
153C	HistoryEventList_ID48	U16				
153D	HistoryEventList_yM48	U16				
153E	HistoryEventList_dH48	U16				
153F	HistoryEventList_ms48	U16				
1540	HistoryEventList_ID49	U16				
1541	HistoryEventList_yM49	U16				
1542	HistoryEventList_dH49	U16				
1543	HistoryEventList_ms49	U16				
1544	HistoryEventList_ID50	U16				
1545	HistoryEventList_yM50	U16				
1546	HistoryEventList_dH50	U16				
1547	HistoryEventList_ms50	U16				
1548	HistoryEventList_ID51	U16				
1549	HistoryEventList_yM51	U16				
154A	HistoryEventList_dH51	U16				
154B	HistoryEventList_ms51	U16				

154C	HistoryEventList_ID52	U16				
154D	HistoryEventList_yM52	U16				
154E	HistoryEventList_dH52	U16				
154F	HistoryEventList_ms52	U16				
1550	HistoryEventList_ID53	U16				
1551	HistoryEventList_yM53	U16				
1552	HistoryEventList_dH53	U16				
1553	HistoryEventList_ms53	U16				
1554	HistoryEventList_ID54	U16				
1555	HistoryEventList_yM54	U16				
1556	HistoryEventList_dH54	U16				
1557	HistoryEventList_ms54	U16				
1558	HistoryEventList_ID55	U16				
1559	HistoryEventList_yM55	U16				
155A	HistoryEventList_dH55	U16				
155B	HistoryEventList_ms55	U16				
155C	HistoryEventList_ID56	U16				
155D	HistoryEventList_yM56	U16				
155E	HistoryEventList_dH56	U16				
155F	HistoryEventList_ms56	U16				
1560	HistoryEventList_ID57	U16				
1561	HistoryEventList_yM57	U16				
1562	HistoryEventList_dH57	U16				
1563	HistoryEventList_ms57	U16				
1564	HistoryEventList_ID58	U16				
1565	HistoryEventList_yM58	U16				
1566	HistoryEventList_dH58	U16				
1567	HistoryEventList_ms58	U16				
1568	HistoryEventList_ID59	U16				
1569	HistoryEventList_yM59	U16				
156A	HistoryEventList_dH59	U16				
156B	HistoryEventList_ms59	U16				
156C	HistoryEventList_ID60	U16				
156D	HistoryEventList_yM60	U16				
156E	HistoryEventList_dH60	U16				
156F	HistoryEventList_ms60	U16				
1570	HistoryEventList_ID61	U16				
1571	HistoryEventList_yM61	U16				
1572	HistoryEventList_dH61	U16				
1573	HistoryEventList_ms61	U16				
1574	HistoryEventList_ID62	U16				
1575	HistoryEventList_yM62	U16				
1576	HistoryEventList_dH62	U16				
1577	HistoryEventList_ms62	U16				
1578	HistoryEventList_ID63	U16				

1579	HistoryEventList_yM63	U16				
157A	HistoryEventList_dH63	U16				
157B	HistoryEventList_ms63	U16				
157C	HistoryEventList_ID64	U16				
157D	HistoryEventList_yM64	U16				
157E	HistoryEventList_dH64	U16				
157F	HistoryEventList_ms64	U16				
1580	HistoryEventList_ID65	U16				
1581	HistoryEventList_yM65	U16				
1582	HistoryEventList_dH65	U16				
1583	HistoryEventList_ms65	U16				
1584	HistoryEventList_ID66	U16				
1585	HistoryEventList_yM66	U16				
1586	HistoryEventList_dH66	U16				
1587	HistoryEventList_ms66	U16				
1588	HistoryEventList_ID67	U16				
1589	HistoryEventList_yM67	U16				
158A	HistoryEventList_dH67	U16				
158B	HistoryEventList_ms67	U16				
158C	HistoryEventList_ID68	U16				
158D	HistoryEventList_yM68	U16				
158E	HistoryEventList_dH68	U16				
158F	HistoryEventList_ms68	U16				
1590	HistoryEventList_ID69	U16				
1591	HistoryEventList_yM69	U16				
1592	HistoryEventList_dH69	U16				
1593	HistoryEventList_ms69	U16				
1594	HistoryEventList_ID70	U16				
1595	HistoryEventList_yM70	U16				
1596	HistoryEventList_dH70	U16				
1597	HistoryEventList_ms70	U16				
1598	HistoryEventList_ID71	U16				
1599	HistoryEventList_yM71	U16				
159A	HistoryEventList_dH71	U16				
159B	HistoryEventList_ms71	U16				
159C	HistoryEventList_ID72	U16				
159D	HistoryEventList_yM72	U16				
159E	HistoryEventList_dH72	U16				
159F	HistoryEventList_ms72	U16				
15A0	HistoryEventList_ID73	U16				
15A1	HistoryEventList_yM73	U16				
15A2	HistoryEventList_dH73	U16				
15A3	HistoryEventList_ms73	U16				
15A4	HistoryEventList_ID74	U16				
15A5	HistoryEventList_yM74	U16				

15A6	HistoryEventList_dH74	U16				
15A7	HistoryEventList_ms74	U16				
15A8	HistoryEventList_ID75	U16				
15A9	HistoryEventList_yM75	U16				
15AA	HistoryEventList_dH75	U16				
15AB	HistoryEventList_ms75	U16				
15AC	HistoryEventList_ID76	U16				
15AD	HistoryEventList_yM76	U16				
15AE	HistoryEventList_dH76	U16				
15AF	HistoryEventList_ms76	U16				
15B0	HistoryEventList_ID77	U16				
15B1	HistoryEventList_yM77	U16				
15B2	HistoryEventList_dH77	U16				
15B3	HistoryEventList_ms77	U16				
15B4	HistoryEventList_ID78	U16				
15B5	HistoryEventList_yM78	U16				
15B6	HistoryEventList_dH78	U16				
15B7	HistoryEventList_ms78	U16				
15B8	HistoryEventList_ID79	U16				
15B9	HistoryEventList_yM79	U16				
15BA	HistoryEventList_dH79	U16				
15BB	HistoryEventList_ms79	U16				
15BC	HistoryEventList_ID80	U16				
15BD	HistoryEventList_yM80	U16				
15BE	HistoryEventList_dH80	U16				
15BF	HistoryEventList_ms80	U16				
15C0	HistoryEventList_ID81	U16				
15C1	HistoryEventList_yM81	U16				
15C2	HistoryEventList_dH81	U16				
15C3	HistoryEventList_ms81	U16				
15C4	HistoryEventList_ID82	U16				
15C5	HistoryEventList_yM82	U16				
15C6	HistoryEventList_dH82	U16				
15C7	HistoryEventList_ms82	U16				
15C8	HistoryEventList_ID83	U16				
15C9	HistoryEventList_yM83	U16				
15CA	HistoryEventList_dH83	U16				
15CB	HistoryEventList_ms83	U16				
15CC	HistoryEventList_ID84	U16				
15CD	HistoryEventList_yM84	U16				
15CE	HistoryEventList_dH84	U16				
15CF	HistoryEventList_ms84	U16				
15D0	HistoryEventList_ID85	U16				
15D1	HistoryEventList_yM85	U16				
15D2	HistoryEventList_dH85	U16				
15D3	HistoryEventList_ms85	U16				
15D4	HistoryEventList_ID86	U16				

15D5	HistoryEventList_yM86	U16				
15D6	HistoryEventList_dH86	U16				
15D7	HistoryEventList_ms86	U16				
15D8	HistoryEventList_ID87	U16				
15D9	HistoryEventList_yM87	U16				
15DA	HistoryEventList_dH87	U16				
15DB	HistoryEventList_ms87	U16				
15DC	HistoryEventList_ID88	U16				
15DD	HistoryEventList_yM88	U16				
15DE	HistoryEventList_dH88	U16				
15DF	HistoryEventList_ms88	U16				
15E0	HistoryEventList_ID89	U16				
15E1	HistoryEventList_yM89	U16				
15E2	HistoryEventList_dH89	U16				
15E3	HistoryEventList_ms89	U16				
15E4	HistoryEventList_ID90	U16				
15E5	HistoryEventList_yM90	U16				
15E6	HistoryEventList_dH90	U16				
15E7	HistoryEventList_ms90	U16				
15E8	HistoryEventList_ID91	U16				
15E9	HistoryEventList_yM91	U16				
15EA	HistoryEventList_dH91	U16				
15EB	HistoryEventList_ms91	U16				
15EC	HistoryEventList_ID92	U16				
15ED	HistoryEventList_yM92	U16				
15EE	HistoryEventList_dH92	U16				
15EF	HistoryEventList_ms92	U16				
15F0	HistoryEventList_ID93	U16				
15F1	HistoryEventList_yM93	U16				
15F2	HistoryEventList_dH93	U16				
15F3	HistoryEventList_ms93	U16				
15F4	HistoryEventList_ID94	U16				
15F5	HistoryEventList_yM94	U16				
15F6	HistoryEventList_dH94	U16				
15F7	HistoryEventList_ms94	U16				
15F8	HistoryEventList_ID95	U16				
15F9	HistoryEventList_yM95	U16				
15FA	HistoryEventList_dH95	U16				
15FB	HistoryEventList_ms95	U16				
15FC	HistoryEventList_ID96	U16				
15FD	HistoryEventList_yM96	U16				
15FE	HistoryEventList_dH96	U16				
15FF	HistoryEventList_ms96	U16				
1600	HistoryEventList_ID97	U16				
1601	HistoryEventList_yM97	U16				
1602	HistoryEventList_dH97	U16				
1603	HistoryEventList_ms97	U16				

1604	HistoryEventList_ID98	U16				
1605	HistoryEventList_yM98	U16				
1606	HistoryEventList_dH98	U16				
1607	HistoryEventList_ms98	U16				
1608	HistoryEventList_ID99	U16				
1609	HistoryEventList_yM99	U16				
160A	HistoryEventList_dH99	U16				
160B	HistoryEventList_ms99	U16				
160C	HistoryEventList_ID100	U16				
160D	HistoryEventList_yM100	U16				
160E	HistoryEventList_dH100	U16				
160F	HistoryEventList_ms100	U16				
1610	EnergyStatistics1	U32	0,01	kWh		
1611						
1612	EnergyStatistics2	U32	0,01	kWh		
1613						
1614	EnergyStatistics3	U32	0,01	kWh		
1615						
1616	EnergyStatistics4	U32	0,01	kWh		
1617						
1618	EnergyStatistics5	U32	0,01	kWh		
1619						
161A	EnergyStatistics6	U32	0,01	kWh		
161B						
161C	EnergyStatistics7	U32	0,01	kWh		
161D						
161E	EnergyStatistics8	U32	0,01	kWh		
161F						
1620	EnergyStatistics9	U32	0,01	kWh		
1621						
1622	EnergyStatistics10	U32	0,01	kWh		
1623						
1624	EnergyStatistics11	U32	0,01	kWh		
1625						
1626	EnergyStatistics12	U32	0,01	kWh		
1627						
1628	EnergyStatistics13	U32	0,01	kWh		
1629						
162A	EnergyStatistics14	U32	0,01	kWh		
162B						
162C	EnergyStatistics15	U32	0,01	kWh		
162D						
162E	EnergyStatistics16	U32	0,01	kWh		
162F						
1630	EnergyStatistics17	U32	0,01	kWh		
1631						
1632	EnergyStatistics18	U32	0,01	kWh		

1633						
1634	EnergyStatistics19	U32	0,01	kWh		
1635						
1636	EnergyStatistics20	U32	0,01	kWh		
1637						
1638	EnergyStatistics21	U32	0,01	kWh		
1639						
163A	EnergyStatistics22	U32	0,01	kWh		
163B						
163C	EnergyStatistics23	U32	0,01	kWh		
163D						
163E	EnergyStatistics24	U32	0,01	kWh		
163F						
1640	EnergyStatistics25	U32	0,01	kWh		
1641						
1642	EnergyStatistics26	U32	0,01	kWh		
1643						
1644	EnergyStatistics27	U32	0,01	kWh		
1645						
1646	EnergyStatistics28	U32	0,01	kWh		
1647						
1648	EnergyStatistics29	U32	0,01	kWh		
1649						
164A	EnergyStatistics30	U32	0,01	kWh		
164B						
164C	EnergyStatistics31	U32	0,01	kWh		
164D						
164E	EnergyStatistics32	U32	0,01	kWh		
164F						
1650	EnergyStatistics33	U32	0,01	kWh		
1651						
1652	EnergyStatistics34	U32	0,01	kWh		
1653						
1654	EnergyStatistics35	U32	0,01	kWh		
1655						
1656	EnergyStatistics36	U32	0,01	kWh		
1657						
1658	EnergyStatistics37	U32	0,01	kWh		
1659						
165A	EnergyStatistics38	U32	0,01	kWh		
165B						
165C	EnergyStatistics39	U32	0,01	kWh		
165D						
165E	EnergyStatistics40	U32	0,01	kWh		
165F						

1.8 Function 0x10

Through the 0x10 function code is possible to write the register information, data format is as follows:

1.8.1 Format

Host request message Format :

Slave Address	Function Code	Starting Address	Number of Registers	Byte count	CRC16
1 Byte	1 Byte	1 Word	1 Word	1 Byte	1 Word
Byte	Byte	Hi Byte Lo Byte	Hi Byte Lo Byte	Byte	Lo Byte Hi Byte

Slave response message Format:

Slave Address	Function Code	Starting Address	Number of Registers	CRC16
1 Byte	1 Byte	1 Word	1 Word	1 Word
Byte	Byte	Hi Byte Lo Byte	Hi Byte Lo Byte	Lo Byte Hi Byte

Example(query the state of the Inverter)

Query:

Slave Address	0x01
Function Code	0x10
Register Address Hi	0x00
Register Address Lo	0x00
Number of Registers Hi	0x00
Number of Registers Lo	0x01
Byte count	0x02
CRC16 Lo	0x84
CRC16 Hi	0x0A

Response:

Slave Address	0x01
Function Code	0x10
Register Address Hi	0x00
Register Address Lo	0x00
Number of Registers Hi	0x00
Number of Registers Lo	0x01
CRC16 Lo	0xB8
CRC16 Hi	0x44

1.8.2 Write inverter registers list

Basic parameters						
Address	Definition	Type	Accuracy	Unit	Range	Remarks
1004	SysTimeConfig_Year	U16		Year	0-99	
1005	SysTimeConfig_Month	U16		Month	1-12	
1006	SysTimeConfig_Date	U16		Day	1-31	
1007	SysTimeConfig_Hour	U16		Hour	0-23	
1008	SysTimeConfig_Minute	U16		Min	0-59	
1009	SysTimeConfig_Second	U16		s	0-59	
100A	SysTimeConfig_Control	U16			1	
100B	RS485Config_Address	U16			1-247	
100C	RS485Config_Baud	U16			0-4	
100D	RS485Config_StopBit	U16			0-2	
100E	RS485Config_ParityBit	U16			0-4	
100F	RS485Config_Control	U16			1	
1010	PV_InputMode_Config	U16			0-1	
1011	InputType_Channel0_Config	U16			0-255	
1012	InputType_Channel1_Config	U16			0-255	
1013	InputType_Channel2_Config	U16			0-255	
1014	InputType_Channel3_Config	U16			0-255	
1015	InputType_Channel4_Config	U16			0-255	
1016	InputType_Channel5_Config	U16			0-255	
1017	InputType_Channel6_Config	U16			0-255	
1018	InputType_Channel7_Config	U16			0-255	
1019	InputType_Channel8_Config	U16			0-255	
101A	InputType_Channel9_Config	U16			0-255	
101B	InputType_Channel10_Config	U16			0-255	
101C	InputType_Channel11_Config	U16			0-255	
101D	InputType_Channel12_Config	U16			0-255	
101E	InputType_Channel13_Config	U16			0-255	
101F	InputType_Channel14_Config	U16			0-255	
1020	InputType_Channel15_Config	U16			0-255	
1021	InputType_Control	U16			1	
1022	SafetyUpdateFromUSB_Control	U16			1	
1023	AntiReflux_Control	U16			0-1	
1024	AntiReflux_Power	U16	1	%Pn	0-65535	
1025	IVCurveScan_Control	U16			0-1	
1026	IVCurveScan_Period	U16	1	min	5-65535	
1027	IVCurveScan_Oneshot	U16			1	
1028	IVCurveScan_ReadChannel	U16			0-31	
1029	EPS_Control	U16			0-2	
102A	EPS_WaitTime	U16	1	s	0-65535	
102B	BatteryActive_Control	U16			0-1	
102C	BatteryActive_Oneshot	U16			1	

102D	CT_Auto_Calibrate	U16			1	
102E	Italy_AutoTest	U16			1-2	
102F		U16				
1030	EnergyStatistics_Date_Year	U16	1	year	0-19	
1031	EnergyStatistics_Date_Month	U16	1	month	1-12	
1032	EnergyStatistics_Date_Date	U16	1	day	1-31	
1033	EnergyStatistics_Config	U16				
1034	Language	U16			0-65535	
1035	Parallel_Control	U16			0-1	
1036	Parallel_Master_Slave	U16			0-1	
1037	Parallel_Address	U16			0-10	
1044	BatConfig_ID	U16			0-7	
1045	BatConfig_Address	U16				
1046	BatConfig_Potocol	U16			0-65535	
1047	BatConfig_Voltage_Over	U16	0,1	V	0-65535	
1048	BatConfig_Voltage_Charge	U16	0,1	V	0-65535	
1049	BatConfig_Voltage_Lack	U16	0,1	V	0-65535	
104A	BatConfig_Voltage_Discharge_Stop	U16	0,1	V	0-65535	
104B	BatConfig_Current_Charge_Limit	U16	0,01	A	0-65535	
104C	BatConfig_Current_Discharge_Limit	U16	0,01	A	0-65535	
104D	BatConfig_Depth_of_Discharge	U16	1	%	1-90	
104E	BatConfig_End_of_Discharge	U16	1	%	1-90	
104F	BatConfig_Capacity	U16	1	Ah	1-65535	
1050	BatConfig_Voltage_Nominal	U16	0,01	V	0-65535	
1051	BatConfig_Cell_Type	U16	1		0-3	
1052	BatConfig_Impedance	U16	1	mΩ	0-65535	
1053	BatConfig_Control	U16				

Remote control						
Address	Definition	Type	Accuracy	Unit	Range	Remarks
1104	Remote_On_Off_Control	U16			0-1	
1110	Energy_Storage_Mode_Control	U16			0-4	4
1111	Timing_ID	U16			0-3	3
1112	Timing_On_Off_Control	U16			0-1	1
1113	Timing_Charge_Start	U16	1 1	Hour min	0-23 0-59	
1114	Timing_Charge_End	U16	1 1	Hour min	0-23 0-59	
1115	Timing_Discharge_Start	U16	1 1	Hour min	0-23 0-59	
1116	Timing_Discharge_End	U16	1 1	Hour min	0-23 0-59	
1117	Timing_Power_Charge	U32	1	W	1-4294967296	
1118						

1119	Timing_Power_Discharge	U32	1	W	1-4294967296	
111A						
111B	Timing_Rsvd1					
111C	Timing_Rsvd2					
111D	Timing_Rsvd3					
111E	Timing_Rsvd4					
111F	Timing_Control	U16			1	
1120	TOU_ID	U16			0-7	
1121	TOU_On_Off_Control	U16			0-1	
1122	TOU_Charge_Start	U16	1	Hour	0-23	
			1	min	0-59	
1123	TOU_Charge_End	U16	1	Hour	0-23	
			1	min	0-59	
1124	TOU_Charge_Target_SOC	U16	1	%	30-100	
1125	TOU_Charge_Power	U32	1	W	1-4294967296	
1126						
1127	TOU_Executed_Date_Start	U16	1	mont	1-12	
			1	h day	1-31	
1128	TOU_Executed_Date_End	U16	1	mont	1-12	
			1	h day	1-31	
1129	TOU_Executed_Day_of_Week	U16				
112A	TOU_Rsvd1					
112B	TOU_Rsvd2					
112C	TOU_Rsvd3					
112D	TOU_Rsvd4					
112E	TOU_Rsvd5					
112F	TOU_Control	U16			1	
1130	Peak_Shaving_Discharge_Threshold	U32	1	W	100	
1131						
1132	Peak_Shaving_Charge_Threshold	U32	1	W	100	
1133						
1184	Passive_Timeout	U16	1	s	0-65535	
1185	Passive_Timeout_Action	U16			0-1	
1186	Passive_Rsvd1					
1187	Passive_Manual_Gdes	I32	1	W	-2147483648	
1188					+2147483647	
1189	Passive_Manual_Blo	I32	1	W	-2147483648	
118A					+2147483647	
118B	Passive_Manual_Bup	I32	1	W	-2147483648	
118C					+2147483647	
118D	Passive_Manual_Gdzup	I32	1	W	-2147483648	
118E					+2147483647	
118F	Passive_Manual_Gdzlo	I32	1	W	-2147483648	
1190					+2147483647	

1191	Passive_Scheduler_Gdes_Ante	I32	1	W	-2147483648 +2147483647	
1192						
1193	Passive_Scheduler_Blo_Ante	I32	1	W	-2147483648 +2147483647	
1194						
1195	Passive_Scheduler_Bup_Ante	I32	1	W	-2147483648 +2147483647	
1196						
1197	Passive_Scheduler_Gdzup_Ante	I32	1	W	-2147483648 +2147483647	
1198						
1199	Passive_Scheduler_Gdzlo_Ante	I32	1	W	-2147483648 +2147483647	
119A						
119B	Passive_Scheduler_Gdes_Post	I32	1	W	-2147483648 +2147483647	
119C						
119D	Passive_Scheduler_Blo_Post	I32	1	W	-2147483648 +2147483647	
119E						
119F	Passive_Scheduler_Bup_Post	I32	1	W	-2147483648 +2147483647	
11A0						
11A1	Passive_Scheduler_Gdzup_Post	I32	1	W	-2147483648 +2147483647	
11A2						
11A3	Passive_Scheduler_Gdzlo_Post	I32	1	W	-2147483648 +2147483647	
11A4						
11A5	Passive_Scheduler_StartTime	U32	1	s	0-4294967296	
11A6						
11A7	Passive_Scheduler_DurationTime	U32	1	s	0-4294967296	
11A8						
11A9	Passive_Scheduler_ManagementM ode	U16			0-2	

1.9 Wrong data answer (0x90)

If the command is not correct we can experience a wrong data answer (code 0x90)

1.9.1 Format

Host request message Format :

Slave Address	Function Code	Error code	CRC16
1 Byte	1 Byte	1 Byte	1 Word
Byte	Byte	Byte	Lo Byte Hi Byte

Error Codes	
value	description
1	Function not valid
2	Address not valid

3	Data value not valid
4	fail slave device
7	slave busy