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### **Modbus Registers IQC version 1.3**

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#### Version history

Version	Date	Author	Changes	IQC Ver.
1.0	2019-10-10	FROS	Initial version 1.0.	1.00 - 1.04
1.1	2019-10-14	FROS	New added register. Restructured Holding register.	1.06 - 1.06j
1.2	2020-06-15	FROS	"Added new registers for new functions in 1.08 4x00032-33: Separate forced fan speed 4x00045: Individual pump alarms 4x00095-98: Duct pressure sensor settings Clarified description of the registers 4x00140-391"	1.08 - 1.08c
1.3	2022-11-08	FROS	"Added new registers for new functions in 1.09h 4x00007-10, 00114-118, 00122-127, 00132-137: CAV and VAV 4x00042-43: Filter monitor limits 4x00099-108: Flow- and Filter pressure sensor settings"	1.09f - 1.09h



# Coil status - Discrete Output (1bit) R/W

### **Application control registers**

Modbus	Register Name	Description
0x00001	Unit on	
0x00002	Overpressure mode	
0x00003	Boost mode	
0x00004	Away mode	
0x00005	Clear Alarms	Write 1 to clear alarm, reads always 0
0x00006	Reset filter timer	Write 1 to reset filter timer, reads always 0



# Input status - Discrete Input (1bit) Read only

### Switch input registers

Modbus	Register Name	Description	
1x00001	Fire alarm input	D1	
1x00002	Boost input	D2	
1x00003	Overpressure input	D3	
1x00004	Extended operation input	D4	
1x00005	Away input	D5	
1x00006	Filter input	D6	
1x00007	Heater interlock	D7	

### Alarm registers

Modbus	Register Name	Description
1x00010	Fire alarm	·
1x00011	Rotor alarm	
1x00012	RFU	Readable, value has no meaning
1x00013	Freeze alarm	
1x00014	Low supply alarm	
1x00015	Low rotor temperature alarm	
1x00016	RFU	Readable, value has no meaning
1x00017	RFU	Readable, value has no meaning
1x00018	Temp. sensor open circuit alarm	
1x00019	Temp. sensor short circuit alarm	
1x00020	Pulser alarm	
1x00021	Supply fan alarm	
1x00022	Exhaust fan alarm	
1x00023	Supply filter alarm	
1x00024	Exhaust filter alarm	
1x00025	Filter timer alarm	
1x00026	Freeze protection B level	
1x00027	Freeze protection A level	
1x00028	Startup 1st phase	Damper open, exhaust fan running.
1x00029	Startup 2st phase	Supply fan running, temperature regulation start
1x00030	Heating	
1x00031	Recovery heat/cold	
1x00032	Cooling	
1x00033	CO2 boost	0 = Off 1 = Running
1x00034	RH boost	0 = Off 1 = Running
1x00035	Pump alarm - heating	X4 DI
1x00036	Pump alarm - cooling	X13 DI
1x00037	SNC Active	0 = Off 1 = Running
1x00038	VOC boost	0 = Off 1 = Running
1x00039	RFU	Readable, value has no meaning
1x00040	RFU	Readable, value has no meaning
1x00041	RFU	Readable, value has no meaning
1x00042	RFU	Readable, value has no meaning
1x00043	RFU	Readable, value has no meaning
1x00044	RFU	Readable, value has no meaning
1x00045	RFU	Readable, value has no meaning
1x00046	Pressure deviation alarm - Supply	
1x00047	Pressure deviation alarm - Extract	
1x00048	RFU	Readable, value has no meaning
1x00049	RFU	Readable, value has no meaning
1x00050	RFU	Readable, value has no meaning
1x00051	RFU	Readable, value has no meaning
1x00052	RFU	Readable, value has no meaning
1x00053	Lost com.	Mini expansion
1x00054	RFU	Readable, value has no meaning



## Input register - 16 bit integer register Read only

Common Identity register

Modbus	Register Name	Min	Max	Unit	Description
3x00001	Component ID				Always 10
	control registers		1	1	
Modbus	Register Name	Min	Max	Unit	Description
3x00002	Outdoor temperature (unit)				
3x00003	Supply air temperature (unit/duct)				
3x00004	Extract air temperature (unit)				
3x00005	Exhaust air temperature (unit)				
3x00006	Water temperature (coil)				
3x00007	Heat recovery temperature (unit)				
3x00008	Room temperature				
3x00009	RFU				Readable, value has no meaning
3x00010	RFU				Readable, value has no meaning
3x00011	RFU				Readable, value has no meaning
3x00012	Supply pressure - duct (GP1)			Pa	ska inte vara x0.1Pa, bumpas med x10
3x00013	Extract pressure - duct (GP2)			Pa	ska inte vara x0.1Pa, bumpas med x10
3x00014	RFU				Readable, value has no meaning
3x00015	RFU				Readable, value has no meaning
3x00016	RFU				Readable, value has no meaning
3x00017	RFU				Readable, value has no meaning
3x00018	Sensors open				Bit mask. Bit is set if sensor is required and open circuit. See also Sensors shorted.
3x00019	Sensors shorted				Bit mask. Bit is set if sensor is required and shorted. Bit0 = T1 Bit6 = T7.
3x00020	Filter days left				Number of days to filter change.
3x00021	Current weektimer program	0	5		0 = none, 1-5 = program 1-5
3x00022	RFU				Readable, value has no meaning
3x00023	Current supply fan step	0	3		0 = Off, 1 = Min, 2 = Std, 3 = Max
3x00024	Current exhaust fan step	0	3		0 = Off, 1 = Min, 2 = Std, 3 = Max
3x00025	Current supply fan power			%	
3x00026	Current exhaust fan power			%	
3x00027	Current supply fan speed			RPM	
3x00028	Current exhaust fan speed			RPM	
3x00029	Current heating power	0	255		255 = 100%
3x00030	Current heat/cold recovery power	0	255		255 = 100%
3x00031	Current cooling power	0	255		255 = 100%
3x00032	Supply fan control voltage	0	100	x0.1V	
3x00033	Exhaust fan control voltage	0	100	x0.1V	
3x00034	Changeover active	0	1		0 = Off, 1 = On
3x00041	Quality sensor 1 - type				0 = None, 1 = RH, 2 = CO2, 3 = VOC
3x00042	Quality sensor 1 - value				"RH: 0-10V=0-100 (%) CO2: 0-10V=0-2000 (PPM) VOC: 0-10V=0-2000 (PPM)"
3x00043	RFU				Readable, value has no meaning
3x00044	RFU				Readable, value has no meaning
3x00045	RFU				Readable, value has no meaning
3x00046	RFU				Readable, value has no meaning
	<del>-</del>		1		



### Holding register - 16 bit integer register R/W (p. 1/4)

**Application control registers** 

ModbusRegister NameMinMaxUnitDescription4x00001Temperature setpoint (economy)1539*°C* Comfort setpoint -14x00002Temperature setpoint (comfort)1540*°C* or maxlimit (ref. to 4x00048)4x00003Supply fan speed, EC0100%Read only when Fan Reg. Type CPC is used4x00004Exhaust fan speed, EC0100%Read only when Fan Reg. Type CPC is used4x00005Min exhaust fan speed, EC0100%4x00006Max exhaust fan speed, EC0100%4x00007Std supply fan airflow setpoint09999I/sOnly for regulation type CAV4x00008Std exhaust fan airflow setpoint09999I/s"Only for regulation type CAV4x00009Min exhaust fan airflow setpoint*1/s"Only for regulation type CAV4x00010Max exhaust fan airflow setpoint*9999I/s"Only for regulation type CAV4x00011RFUReadable, value has no meaning4x00012Temperature regulation mode04"O: Supply, 1: Extract, 2: Room, 3: Extract 3: Room 5/W"4x00013Min supply temperature1519°CUsed when Extraxt or Room regulation is set to supply cold limit A4x00016Supply cold limit A210°C4x00016Supply cold limit B512°CMust be greater than limit A above.	
4x00002Temperature setpoint (comfort)1540*°C* or maxlimit (ref. to 4x00048)4x00003Supply fan speed, EC0100%Read only when Fan Reg. Type CPC is used4x00004Exhaust fan speed, EC0100%Read only when Fan Reg. Type CPC is used4x00005Min exhaust fan speed, EC0100%4x00006Max exhaust fan speed, EC0100%4x00007Std supply fan airflow setpoint09999I/sOnly for regulation type CAV4x00008Std exhaust fan airflow setpoint09999I/sOnly for regulation type CAV4x00010Max exhaust fan airflow setpoint*1/s"Only for regulation type CAV4x00011RFUReadable, value has no meaning4x00012Temperature regulation mode04"O: Supply, 1: Extract, 2: Room, 3: Extract Stream	
4x00003Supply fan speed, EC0100%Read only when Fan Reg. Type CPC is used4x00004Exhaust fan speed, EC0100%Read only when Fan Reg. Type CPC is used4x00005Min exhaust fan speed, EC0100%4x00006Max exhaust fan speed, EC0100%4x00007Std supply fan airflow setpoint09999I/sOnly for regulation type CAV4x00008Std exhaust fan airflow setpoint09999I/sOnly for regulation type CAV4x00009Min exhaust fan airflow setpoint*1/s"Only for regulation type CAV4x00010Max exhaust fan airflow setpoint*9999I/s"Only for regulation type CAV4x00011RFUReadable, value has no meaning4x00012Temperature regulation mode04"O: Supply, 1: Extract, 2: Room, 3: Extract 3/4: Room S/W"4x00013Min supply temperature1519"CUsed when Extraxt or Room regulation is s4x00014Max supply temperature2040"C4x00015Supply cold limit A210"C4x00016Supply cold limit B512"CMust be greater than limit A above.	
4x00004Exhaust fan speed, EC0100%Read only when Fan Reg. Type CPC is used4x00005Min exhaust fan speed, EC0100%4x00006Max exhaust fan speed, EC0100%4x00007Std supply fan airflow setpoint09999I/sOnly for regulation type CAV4x00008Std exhaust fan airflow setpoint09999I/sOnly for regulation type CAV4x00009Min exhaust fan airflow setpoint*I/s"Only for regulation type CAV4x00010Max exhaust fan airflow setpoint*9999I/s"Only for regulation type CAV4x00011RFUReadable, value has no meaning4x00012Temperature regulation mode04"O: Supply, 1: Extract, 2: Room, 3: Extract St. Room S/W"4x00013Min supply temperature1519"CUsed when Extraxt or Room regulation is st. Supply cold limit A4x00015Supply cold limit A210"C4x00016Supply cold limit B512"CMust be greater than limit A above.	
4x00005Min exhaust fan speed, EC0100%4x00006Max exhaust fan speed, EC0100%4x00007Std supply fan airflow setpoint09999I/sOnly for regulation type CAV4x00008Std exhaust fan airflow setpoint09999I/sOnly for regulation type CAV4x00009Min exhaust fan airflow setpoint0*I/s"Only for regulation type CAV4x00010Max exhaust fan airflow setpoint*9999I/s"Only for regulation type CAV4x00011RFUReadable, value has no meaning4x00012Temperature regulation mode04"O: Supply, 1: Extract, 2: Room, 3: Extract Stract	
4x00006Max exhaust fan speed, EC0100%4x00007Std supply fan airflow setpoint09999I/sOnly for regulation type CAV4x00008Std exhaust fan airflow setpoint09999I/sOnly for regulation type CAV4x00009Min exhaust fan airflow setpoint0*I/s"Only for regulation type CAV4x00010Max exhaust fan airflow setpoint*9999I/s"Only for regulation type CAV4x00011RFUReadable, value has no meaning4x00012Temperature regulation mode04"0: Supply, 1: Extract, 2: Room, 3: Extract 3/4: Room S/W"4x00013Min supply temperature1519°CUsed when Extraxt or Room regulation is s4x00014Max supply temperature2040°C4x00015Supply cold limit A210°C4x00016Supply cold limit B512°CMust be greater than limit A above.	
4x00007Std supply fan airflow setpoint09999I/sOnly for regulation type CAV4x00008Std exhaust fan airflow setpoint09999I/sOnly for regulation type CAV4x00009Min exhaust fan airflow setpoint0*I/s"Only for regulation type CAV4x00010Max exhaust fan airflow setpoint*9999I/s"Only for regulation type CAV4x00011RFUReadable, value has no meaning4x00012Temperature regulation mode04"0: Supply, 1: Extract, 2: Room, 3: Extract Street	
4x00008Std exhaust fan airflow setpoint09999I/sOnly for regulation type CAV4x00009Min exhaust fan airflow setpoint0*I/s"Only for regulation type CAV4x00010Max exhaust fan airflow setpoint*9999I/s"Only for regulation type CAV4x00011RFUReadable, value has no meaning4x00012Temperature regulation mode04"0: Supply, 1: Extract, 2: Room, 3: Extract 94: Room S/W"4x00013Min supply temperature1519°CUsed when Extraxt or Room regulation is s4x00014Max supply temperature2040°C4x00015Supply cold limit A210°C4x00016Supply cold limit B512°CMust be greater than limit A above.	
4x00009Min exhaust fan airflow setpoint0*I/s"Only for regulation type CAV * Std exhaust fan airflow setpoint -1"4x00010Max exhaust fan airflow setpoint*9999I/s"Only for regulation type CAV * Std exhaust fan airflow setpoint +1"4x00011RFUReadable, value has no meaning4x00012Temperature regulation mode04"0: Supply, 1: Extract, 2: Room, 3: Extract 94: Room S/W"4x00013Min supply temperature1519°CUsed when Extraxt or Room regulation is s4x00014Max supply temperature2040°C4x00015Supply cold limit A210°C4x00016Supply cold limit B512°CMust be greater than limit A above.	
4x00010  Max exhaust fan airflow setpoint * 9999	
4x00010Max exhaust fan airflow setpoint*9999I/s* Std exhaust fan airflow setpoint +1"4x00011RFUReadable, value has no meaning4x00012Temperature regulation mode04"0: Supply, 1: Extract, 2: Room, 3: Extract \$\frac{1}{2}\$ (4: Room S/W")4x00013Min supply temperature1519°CUsed when Extraxt or Room regulation is \$\frac{1}{2}\$4x00014Max supply temperature2040°C4x00015Supply cold limit A210°C4x00016Supply cold limit B512°CMust be greater than limit A above.	
4x00012Temperature regulation mode04"0: Supply, 1: Extract, 2: Room, 3: Extract Substitution of the composition o	
4x00012lemperature regulation mode044: Room S/W"4x00013Min supply temperature1519°CUsed when Extraxt or Room regulation is s4x00014Max supply temperature2040°C4x00015Supply cold limit A210°C4x00016Supply cold limit B512°CMust be greater than limit A above.	
4x00014         Max supply temperature         20         40         °C           4x00015         Supply cold limit A         2         10         °C           4x00016         Supply cold limit B         5         12         °C         Must be greater than limit A above.	et.
4x00015         Supply cold limit A         2         10         °C           4x00016         Supply cold limit B         5         12         °C         Must be greater than limit A above.	
4x00016 Supply cold limit B 5 12 °C Must be greater than limit A above.	
The state of the s	
<b>4x00017</b> Freeze protection limit 5 10 °C	
4x00018 RFU Readable, value has no meaning	
<b>4x00019</b> SNC enabled 0 1 0 = no, 1 = yes	
<b>4x00020</b> SNC indoor-outdoor diff. limit 10 100 0.1℃	
<b>4x00021</b> SNC exhaust high limit 18 24 ℃	
<b>4x00022</b> SNC exhaust low limit 19 26 ℃	
4x00023Standby temp evaluation enabled010 = no, 1 = yes	
<b>4x00024</b> Interval 1 4 h	
<b>4x00025</b> Evaluation time 5 15 min	
<b>4x00026</b> Min. operating time 30 120 min	
<b>4x00027</b> Boost duration 10 240 min	
4x00028 Overpressure duration 10 60 min	
4x00029 Overpressure offset 5 * % *Max value of diff. between EC Min and EC	Max
4x00030         Fire sensor type         0         2         "0: None, 1: Normally open (NO), 2: Normally closed (NC)"	
4x00031Fire mode03"0: Fans off, 1: Exhaust fan only, 2: Supply fan only, 3: Both fans"	
4x00032         Forced fanspeed - Supply         20         100         %         Only used when 4x00031 > 0	
<b>4x00033</b> Forced fanspeed - Exhaust 20 100 %	
4x00034 RFU Readable, value has no meaning	
4x00035 RFU Readable, value has no meaning	
4x00036 RFU Readable, value has no meaning	
<b>4x00037</b> Filter measurement, weekday 0 6 0 = Monday, 1 = Tuesday 6 = Sunday.	
4x00038 Filter measurement, hour 0 23 h	
4x00039 Filter measurement, minute 0 59 min	
<b>4x00040</b> Filter speed increase 5 50 %pts 5 to 50 = allowed power increase in %-union r less equals 5.	s. Writing 5
4x00041 Filter measurement mode 0 2 0 = Off, 1 = Switch, 2 = Speed inc.	
4x00042Supply filter - Final pressure diff.20500Pa	



4x00043	Extract filter - Final pressure diff.	20	500	Pa	
4x00044	Filter change period	6	12	month	Filter timer in months. 0 = off, 6-12 time in months (30 days). Writing 5 or less equals 6.
4x00045	Alarm classes	0	65535		"Bit mask: (0=A, 1=B) bit 0: - Not used - bit 1: Sensor open bit 2: Sensor shorted bit 3: Overheat protection bit 4: - Not used - bit 5: Supply temperature low bit 6: Rotor temperature low bit 7: Fan failure bit 8: Heat exchanger bit 9: Duct pressure deviation bit 10: Pump alarm - Heating coil bit 11: Pump alarm - Cooler coil bit 12: Filter bit 13: Filter timer"
4x00046	RFU				Readable, value has no meaning
4x00047	RFU				Readable, value has no meaning
4x00048	Setpoint max limit (Comfort)	15	40	°C	Maximum selectable temperature setpoint.
4x00049	Eco. setpoint enabled	0	1		0 = no, 1 = yes
4x00050	RFU				Readable, value has no meaning
4x00051	RFU				Readable, value has no meaning
4x00052	Changeover type	1	3		0 = Temperature, 1 = Date, 2 = External input
4x00053	Supply temperature offset	-10	10	K	
4x00054	Winter start	-40	40	°C	
4x00055	Summer start	-40	40	°C	
4x00056	Time constant	0	1000	h	
4x00057	Winter start date				1102 = 2 Nov, 930 = 30 Sep
4x00058	Summer start date				1102 = 2 Nov, 930 = 30 Sep
4x00059	RFU				Readable, value has no meaning
4x00060	RFU				Readable, value has no meaning
4x00061	Flow direction	0	1		0 = standard, 1 = opposite
4x00062	Damper opening time	30	120	sec	
4x00063	Preheater type	0	1		0 = None, 1 = Electric
4x00064	Preheater enabled	0	1		0 = no, 1 = yes
4x00065	Preheater temperature set- point	-40	40	°C	
4x00066	Heater type	0	2		0 = None, 1 = Water, 2 = Electric
4x00067	Heater enabled	0	1		0 = no, 1 = yes
4x00068	Cooler type	0	1		0 = None, 1 = Water
4x00069	Cooler enabled	0	1		0 = no, 1 = yes
4x00070	RFU				Readable, value has no meaning
4x00071	RFU				Readable, value has no meaning
4x00072	RFU				Readable, value has no meaning
4x00073	RFU				Readable, value has no meaning
4x00074	RFU				Readable, value has no meaning
4x00075	RFU				Readable, value has no meaning
4x00076	RFU				Readable, value has no meaning
4x00077	RFU				Readable, value has no meaning
4x00078	RFU				Readable, value has no meaning
4x00079	RFU				Readable, value has no meaning
4x00080	RFU				Readable, value has no meaning



4x00081	Temp.sensor 1 calibration	-50	50	x0.1°C	Sensor calibration offset
4x00082	Temp.sensor 2 calibration	-50	50	x0.1°C	Sensor calibration offset
4x00083	Temp.sensor 3 calibration	-50	50	x0.1°C	Sensor calibration offset
4x00084	Temp.sensor 4 calibration	-50	50	x0.1°C	Sensor calibration offset
4x00085	Temp.sensor 5 calibration	-50	50	x0.1°C	Sensor calibration offset
4x00086	Temp.sensor 6 calibration	-50	50	x0.1°C	Sensor calibration offset
4x00087	Temp.sensor 7 calibration	-50	50	x0.1°C	Sensor calibration offset
4x00088	RFU				Readable, value has no meaning
4x00089	RFU				Readable, value has no meaning
1x00090	RFU				Readable, value has no meaning
4x00091	Quality sensor 1 limit				"RH: 0-100 (%) CO2: 0-2000 (PPM) VOC: 0-2000 (PPM)"
4x00092	RFU				
4x00093	RFU				
4x00094	RFU				Readable, value has no meaning
4x00095	Duct sensor type	0	1		0 = None, 1 = 0-10V, 2 = Modbus
4x00096	Function	0			0 = Individual (always)
4x00097	"Duct sensor - pressure range (only for 0-10V)"	0	10		"1 = 0100 Pa, 2 = 0250 Pa, 3 = 0300 Pa, 4 = 0500 Pa, 5 = 0700 Pa, 6 = 01000 Pa, 7 = 01250 Pa, 8 = 01500 Pa, 9 = 02000 Pa, 10 = 02500 Pa"
4x00098	Model (only for Modbus)	0	1		0 = QBM 68.2525
4x00099	Flow sensor type	0	1		0 = None, 1 = 0-10V, 2 = Modbus
4x00100	Function	0	1		0 = Individual, 1 = Combined
4x00101	"Flow sensor - pressure range (only for 0-10V)"	0	10		"1 = 0100 Pa, 2 = 0250 Pa, 3 = 0300 Pa, 4 = 0500 Pa, 5 = 0700 Pa, 6 = 01000 Pa, 7 = 01250 Pa, 8 = 01500 Pa, 9 = 02000 Pa, 10 = 02500 Pa"
4x00102	Model (only for Modbus)	0	2		0 = QBM 68.2525
4x00103	K-factor Supply			x100	
4x00104	K-factor Exhaust			x100	
4x00105	Filter sensor type	0	1		0 = None, 1 = 0-10V, 2 = Modbus
4x00106	Function	0	1		0 = Individual, 1 = Combined
4x00107	"Filter sensor - pressure range (only for 0-10V)"	0	10		"1 = 0100 Pa, 2 = 0250 Pa, 3 = 0300 Pa, 4 = 0500 Pa, 5 = 0700 Pa, 6 = 01000 Pa, 7 = 01250 Pa, 8 = 01500 Pa, 9 = 02000 Pa, 10 = 02500 Pa"
4x00108	Model (only for Modbus)	0	1		0 = QBM 68.2525
4x00108	RFU		<u> </u>		Readable, value has no meaning
4x00109	Supply setpoint (%)	10	100	%	For fan regulation type: %
4x00110	Exhaust setpoint (%)	10	100	%	Torrain regulation type. 70
4x00111 4x00112	•	0	999		For fan regulation type: CPC
	Supply setpoint (Pa)			Pa	Tor fair regulation type. CPC
4x00113	Exhaust setpoint (Pa)	0	999	Pa	For for regulation type, CAVAVA
4x00114	Supply setpoint (I/s)	0	9999	l/s	For fan regulation type: CAV, VAV
4x00115	Exhaust setpoint (I/s)	0	9999	l/s	
4x00116	Supply offset	-999	999	l/s	For fan regulation type: VAV
4x00117	Exhaust offset	-999	999	l/s	



4x00118	Exhaust Startup Setpoint	0	9999	l/s	For fan regulation type: VAV (Exhaust Fan Slave)
4x00119	RFU				Readable, value has no meaning
4x00120	Supply setpoint (%)	0	100	%	For fan regulation type: %
4x00121	Exhaust setpoint (%)	0	100	%	
4x00122	Supply setpoint (Pa)	0	999	Pa	For fan regulation type: VAV
4x00123	Exhaust setpoint (Pa)	0	999	Pa	
4x00124	Supply setpoint (I/s)	0	9999	l/s	For fan regulation type: CAV, VAV
4x00125	Exhaust setpoint (I/s)	0	9999	l/s	
4x00126	Supply offset	-999	999	l/s	For fan regulation type: VAV
4x00127	Exhaust offset	-999	999	l/s	
4x00128	RFU				Readable, value has no meaning
4x00129	RFU				Readable, value has no meaning
4x00130	Supply setpoint (%)	0	100	%	For fan regulation type: %
4x00131	Exhaust setpoint (%)	0	100	%	
4x00132	Supply setpoint (Pa)	0	999	Pa	For fan regulation type: VAV
4x00133	Exhaust setpoint (Pa)	0	999	Pa	7.
4x00134	Supply setpoint (l/s)	0	9999	I/s	For fan regulation type: CAV, VAV
4x00135	Exhaust setpoint (I/s)	0	9999	l/s	7
4x00136	Supply offset	-999	999	I/s	For fan regulation type: VAV
4x00137	Exhaust offset	-999	999	I/s	7
				1	
4x00140	Week shedule enabled	0	1	1	0 = No, 1 = Yes. (master for toggle all programs off)
4x00141	WS1 On hour	0	23		, i,
4x00142	WS1 On minute	0	59		
4x00143	WS1 Off hour	0	23		
4x00144	WS1 Off minute	0	59		
4x00145	WS1 Weekdays	0	127		Bit mask: bit 0 = Monday, bit 6 = Sunday.
4x00146	WS1 Temp.mode	0	1		0 = Comfort, 1 = Economy
4x00147	WS1 Fan speed	1	4		0 = Standby, 1 = Min, 2 = Std, 3 = Max
4x00148	WS1 Program enabled	0	1		0 = Disabled, 1 = Enabled
4x00149	RFU				Readable, value has no meaning
4x00150	RFU				Readable, value has no meaning
4x00151	WS2 On hour	0	23		
4x00152	WS2 On minute	0	59		
4x00153	WS2 Off hour	0	23		
4x00154	WS2 Off minute	0	59		
4x00155	WS2 Weekdays	0	127		Bit mask: bit 0 = Monday, bit 6 = Sunday.
4x00156	WS2 Temp.mode	0	1		0 = Comfort, 1 = Economy
4x00157	WS2 Fan speed	1	4		0 = Standby, 1 = Min, 2 = Std, 3 = Max
4x00158	WS2 Program enabled	0	1		0 = Disabled, 1 = Enabled
4x00159	RFU				Readable, value has no meaning
4x00160	RFU				Readable, value has no meaning
4x00161	WS3 On hour	0	23	1	
4x00162	WS3 On minute	0	59		
4x00163	WS3 Off hour	0	23		
4x00164	WS3 Off minute	0	59		
4x00165	WS3 Weekdays	0	127		Bit mask: bit 0 = Monday, bit 6 = Sunday.
4x00166	WS3 Temp.mode	0	1		0 = Comfort, 1 = Economy
4x00167	WS3 Fan speed	1	4	1	0 = Standby, 1 = Min, 2 = Std, 3 = Max
4x00167 4x00168	WS3 Program enabled	0	1	1	0 = Disabled, 1 = Enabled
4x00168 4x00169	RFU		+'		Readable, value has no meaning
TAUU 103	IN U			1	neadable, value has no meaning



4x00170	RFU			Readable, value has no meaning
4x00170	WS4 On hour	0	23	reductie, value has no meaning
4x00171	WS4 On minute	0	59	
4x00172	WS4 Off hour	0	23	
4x00174	WS4 Off minute	0	59	
4x00175	WS4 Weekdays	0	127	Bit mask: bit 0 = Monday, bit 6 = Sunday.
4x00175 4x00176	WS4 Temp.mode	0	1	0 = Comfort, 1 = Economy
4x00170 4x00177	WS4 Fan speed	1	4	0 = Standby, 1 = Min, 2 = Std, 3 = Max
4x00177 4x00178	WS4 Program enabled	0	1	0 = Disabled, 1 = Enabled
4x00178	RFU	0	'	Readable, value has no meaning
4x00179	RFU			Readable, value has no meaning
4x00180 4x00181	WS5 On hour	0	23	Readable, value has no meaning
4x00181 4x00182	WS5 On minute	0	59	
4x00182 4x00183	WS5 Off hour	0	23	
	WS5 Off minute	0	59	
4x00184 4x00185		0	127	Bit mask: bit 0 = Monday, bit 6 = Sunday.
4x00185 4x00186	WS5 Weekdays WS5 Temp.mode	0	127	0 = Comfort, 1 = Economy
4x00186 4x00187	WS5 Fan speed	1	4	
4x00187 4x00188	WS5 Program enabled	0	1	0 = Standby, 1 = Min, 2 = Std, 3 = Max 0 = Disabled, 1 = Enabled
	Tiograffi eriableu	0	'	0 – Disabled, 1 – Lilabled
 4x00200	Holiday shadula anablad	0	1	0 = No, 1 = Yes. (master for toggle all programs off)
	Holiday shedule enabled	- 0	'	
4x00201 4x00202	HS1 Start year			e.g.2019
	HS1 Start date	0	22	1102 = 2 Nov, 930 = 30 Sep
4x00203	HS1 Start hour	0	23	
4x00204	HS1 Start minute	0	59	
4x00205	HS1 End year			
4x00206 4x00207	HS1 End date HS1 End hour	0	23	
4x00207 4x00208	HS1 End minute	0	59	
		0	1	O Comfort 1 Francis
4x00209	HS1 Temp.mode	1	4	0 = Comfort, 1 = Economy
4x00210 4x00211	HS1 Fragram enabled	0	1	0 = Standby, 1 = Min, 2 = Std, 3 = Max
	HS1 Program enabled	0		Bit mask: B0 (1 = On)
 4x00221	HS2 Start year			e.g.2019
4x00221 4x00222	HS2 Start date			1102 = 2 Nov, 930 = 30 Sep
4x00222 4x00223	HS2 Start hour	0	23	1102 – 2 Νον, 930 – 30 3εμ
4x00223 4x00224	HS2 Start minute	0	59	
4x00224 4x00225			33	
	HS2 End year			
4x00226 4x00227	HS2 End date HS2 End hour	0	23	
4x00227 4x00228	HS2 End minute	0	59	
4x00228 4x00229	HS2 Temp.mode	0	1	0 = Comfort, 1 = Economy
4x00229 4x00230	HS2 Fanspeed	1	4	0 = Connot, $1 = Economy0 = Standby$ , $1 = Min$ , $2 = Std$ , $3 = Max$
4x00230 4x00231	HS2 Program enabled	0	1	Bit mask: B0 (1 = On)
	1132 110gram enabled	0	'	שנג ווומאר. שט (ד – טוו)
 4x00241	HS3 Start year			e.g.2019
	,			
4x00242	HS3 Start date	0	23	1102 = 2 Nov, 930 = 30 Sep
4x00243	HS3 Start hour	0	59	
4x00244	HS3 Start minute	0	29	
4x00245	HS3 End data			
4x00246	HS3 End date			



4-00247	U62 5 11			
4x00247	HS3 End hour	0	23	
4x00248	HS3 End minute	0	59	0.6.6.4.5
4x00249	HS3 Temp.mode	0	1	0 = Comfort, 1 = Economy
4x00250	HS3 Fanspeed	1	4	0 = Standby, 1 = Min, 2 = Std, 3 = Max
4x00251	HS3 Program enabled	0	1	Bit mask: B0 (1 = On)
4x00261	HS4 Start year			e.g.2019
4x00261	HS4 Start date			1102 = 2 Nov, 930 = 30 Sep
4x00263	HS4 Start hour	0	23	1102 – 2 100V, 550 – 50 Sep
4x00264	HS4 Start minute	0	59	
4x00265	HS4 End year	0	39	
4x00266	HS4 End date			
4x00267	HS4 End hour	0	23	
4x00268	HS4 End minute	0	59	
4x00269	HS4 Temp.mode	0	1	0 = Comfort, 1 = Economy
4x00209	HS4 Fanspeed	1	4	0 = Standby, 1 = Min, 2 = Std, 3 = Max
4x00270 4x00271	HS4 Program enabled	0	1	Bit mask: B0 (1 = On)
	113-4 Frogram enabled	0	<del> </del>	Dit Hidak. DO (1 – OH)
4x00281	HS5 Start year			e.g.2019
4x00282	HS5 Start date			1102 = 2 Nov, 930 = 30 Sep
4x00283	HS5 Start hour	0	23	1102 = 2 110V, 330 = 30 3cp
4x00284	HS5 Start minute	0	59	
4x00285	HS5 End year		33	
4x00286	HS5 End date			
4x00287	HS5 End hour	0	23	
4x00288	HS5 End minute	0	59	
4x00289	HS5 Temp.mode	0	1	0 = Comfort, 1 = Economy
4x00290	HS5 Fanspeed	1	4	0 = Standby, 1 = Min, 2 = Std, 3 = Max
4x00291	HS5 Program enabled	0	1	Bit mask: B0 (1 = On)
4x00301	HS6 Start year			e.g.2019
4x00302	HS6 Start date			1102 = 2 Nov, 930 = 30 Sep
4x00303	HS6 Start hour	0	23	·
4x00304	HS6 Start minute	0	59	
4x00305	HS6 End year			
4x00306	HS6 End date			
4x00307	HS6 End hour	0	23	
4x00308	HS6 End minute	0	59	
4x00309	HS6 Temp.mode	0	1	0 = Comfort, 1 = Economy
4x00310	HS6 Fanspeed	1	4	0 = Standby, 1 = Min, 2 = Std, 3 = Max
4x00311	HS6 Program enabled	0	1	Bit mask: B0 (1 = On)
4x00321	HS7 Start year			e.g.2019
4x00322	HS7 Start date			1102 = 2 Nov, 930 = 30 Sep
4x00323	HS7 Start hour	0	23	
4x00324	HS7 Start minute	0	59	
4x00325	HS7 End year			
4x00326	HS7 End date			
4x00327	HS7 End hour	0	23	
4x00328	HS7 End minute	0	59	
4x00329	HS7 Temp.mode	0	1	0 = Comfort, 1 = Economy



4x00330	HS7 Fanspeed	1	4	0 = Standby, 1 = Min, 2 = Std, 3 = Max
4x00331	HS7 Program enabled	0	1	Bit mask: B0 (1 = On)
4x00341	HS8 Start year			e.g.2019
4x00342	HS8 Start date			1102 = 2 Nov, 930 = 30 Sep
4x00343	HS8 Start hour	0	23	
4x00344	HS8 Start minute	0	59	
4x00345	HS8 End year			
4x00346	HS8 End date			
4x00347	HS8 End hour	0	23	
4x00348	HS8 End minute	0	59	
4x00349	HS8 Temp.mode	0	1	0 = Comfort, 1 = Economy
4x00350	HS8 Fanspeed	1	4	0 = Standby, 1 = Min, 2 = Std, 3 = Max
4x00351	HS8 Program enabled	0	1	Bit mask: B0 (1 = On)
4x00361	HS9 Start year			e.g.2019
4x00362	HS9 Start date			1102 = 2 Nov, 930 = 30 Sep
4x00363	HS9 Start hour	0	23	
4x00364	HS9 Start minute	0	59	
4x00365	HS9 End year			
4x00366	HS9 End date			
4x00367	HS9 End hour	0	23	
4x00368	HS9 End minute	0	59	
4x00369	HS9 Temp.mode	0	1	0 = Comfort, 1 = Economy
4x00370	HS9 Fanspeed	1	4	0 = Standby, 1 = Min, 2 = Std, 3 = Max
4x00371	HS9 Program enabled	0	1	Bit mask: B0 (1 = On)
4x00381	HS10 Start year			e.g.2019
4x00382	HS10 Start date			1102 = 2 Nov, 930 = 30 Sep
4x00383	HS10 Start hour	0	23	
4x00384	HS10 B253Start minute	0	59	
4x00385	HS10 End year			
4x00386	HS10 End date			
4x00387	HS10 End hour	0	23	
4x00388	HS10 End minute	0	59	
4x00389	HS10 Temp.mode	0	1	0 = Comfort, 1 = Economy
4x00390	HS10 Fanspeed	1	4	0 = Standby, 1 = Min, 2 = Std, 3 = Max
4x00391	HS10 Program enabled	0	1	Bit mask: B0 (1 = On)
4x00400	Year			
4x00401	Month	1	12	
4x00402	Day (in month)	1	31	Reading this copies time to read/write buffer.
4x00403	Clock, Hours	0	23	
4x00404	Clock, Minutes	0	59	
4x00405	Clock, Seconds	0	59	Writing this writes time from read/write buffer



4x00901	Modbus-adress	1	255	ID
4x00902	Baudrate	0	7	"0 = 9600, 1 = 14400, 2 = 19200, 3 = 28800, 4 = 38400, 5 = 57600, 6 = 115200, 7 = 230400"
4x00903	Stopbit			0 = Auto, 1 = 1bit, 2 = 2bits
4x00904	Parity			0 = None, 1 = Odd, 2 = Even
4x00920	Exhaust Fan PID, Proportional	0	1000	
4x00921	Exhaust Fan PID, Integral	0	1000	
4x00922	Exhaust Fan PID, Derivative	0	1000	
4x00923	Supply Fan PID, Proportional	0	1000	
4x00924	Supply Fan PID, Integral	0	1000	
4x00925	Supply Fan PID, Derivative	0	1000	
4x00926	Heating PID, Proportional	0	1000	
4x00927	Heating PID, Integral	0	1000	
4x00928	Heating PID, Derivative	0	1000	
4x00929	Recovery PID, Proportional	0	1000	
4x00930	Recovery PID, Integral	0	1000	
4x00931	Recovery PID, Derivative	0	1000	
4x00932	Cooling PID, Proportional	0	1000	
4x00933	Cooling PID, Integral	0	1000	
4x00934	Cooling PID, Derivative	0	1000	
4x00935	Room PID, Proportional	0	1000	
4x00936	Room PID, Integral	0	1000	
4x00937	Room PID, Derivative	0	1000	
4x00938	Rh PID, Proportional	0	1000	
4x00939	Rh PID, Integral	0	1000	
4x00940	Rh PID, Derivative	0	1000	
4x00941	CO2 PID, Proportional	0	1000	
4x00942	CO2 PID, Integral	0	1000	
4x00943	CO2 PID, Derivative	0	1000	
4x00944	VOC PID, Proportional	0	1000	
4x00945	VOC PID, Integral	0	1000	
4x00946	VOC PID, Derivative	0	1000	
*	For units with pressure outlets			