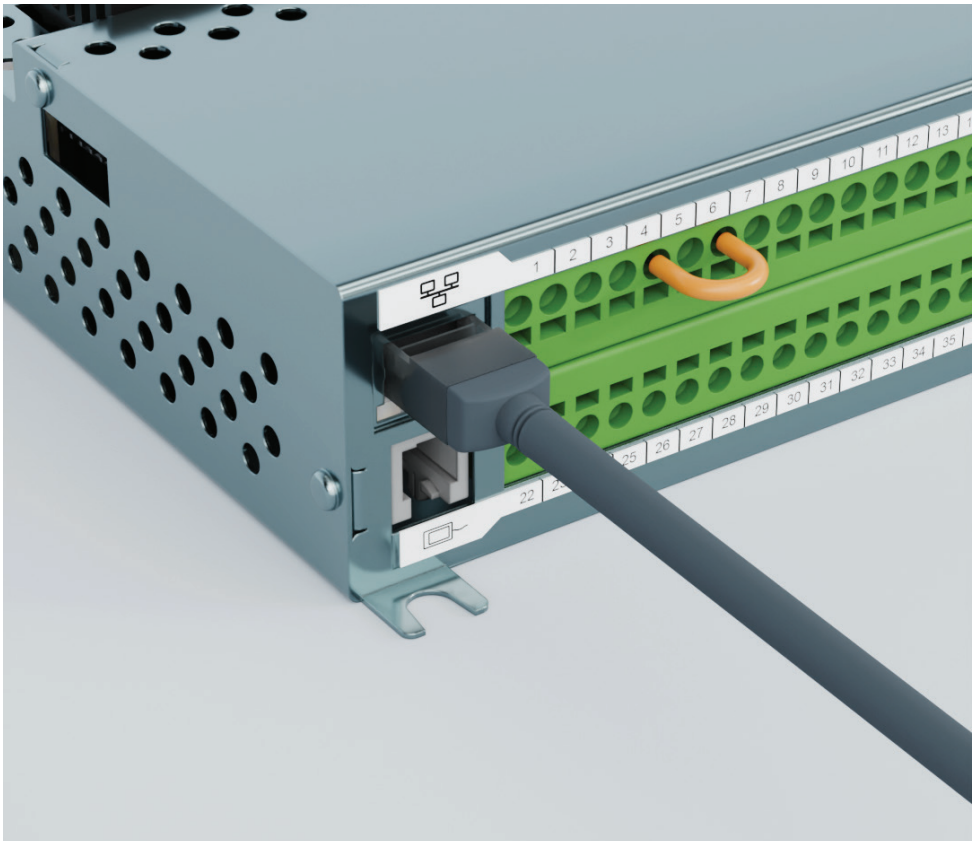


DESCRIPTION OF C6 / C6M CONTROLLER MODBUS

EN



This manual is compatible with C6 / C6M controller firmware version X.X.X.18 and above (X – does not matter).

C6 / C6M controller supports **Modbus RTU** and **Modbus TCP** protocols. Both protocols are using main commands to read and preset registers. Supported Modbus commands are presented in Table 1.



When using Modbus RTU or Modbus TCP/IP, minimum polling time should be 500 ms or longer. In cases when multiple AHU's are connected to the same Modbus network, at least 1s. polling time is recommended.

Table 1. Supported Modbus commands

Function code	Description
03	Read Holding Registers
06	Preset Single Register
16	Preset Multiple Registers

Modbus RTU protocol works via RS-485 interface. Default interface settings are presented in Table 2. Default interface settings and Modbus RTU protocol ID can be changed using the website. To change settings, connect air handling unit (AHU) to your network. Default AHU IP address is 192.168.0.60. Go to your browser and type default AHU IP address. You should see „Login“ window (Fig. 1). To login type username and password. Default username: „user“ and password: „user“.

Table 2. Default settings of RS485 interface

Baudrate	19200
Word length	8
Parity	EVEN
Stop bits	1

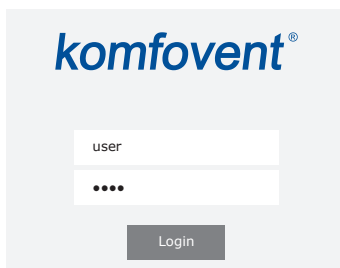


Fig. 1. Website login window

To find RS-485 interface settings and Modbus RTU protocol ID go to „SETTINGS“ and „CONNECTIVITY“ (Fig. 2). If you logged in, but can't open „SETTINGS“ window make sure, that JavaScript in your web browser is enabled (activated).

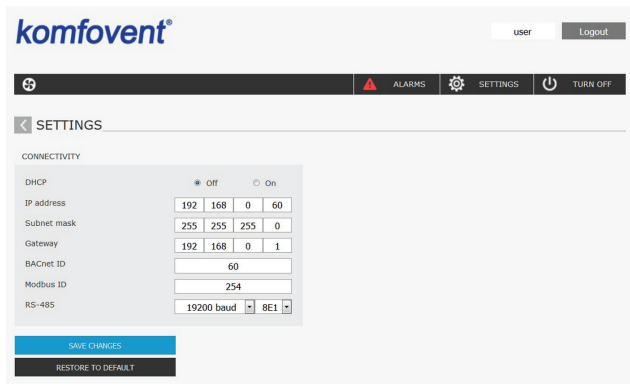


Fig. 2. Connectivity settings

If you can't see „Login“ window, make sure that:

- your device and air handling unit are connected in the same network;
- your device and air handling unit are in the same subnet;
- your proxy server and firewall isn't blocking connection;
- you typed correct IP address.

If your device is connected directly to C6 / C6M controller, make sure, that your DHCP server is disabled and your static IP is in same subnet. If you are using PC and Windows operating system, go to „Local Area Connection Properties“, go to „Internet Protocol Version 4 (TCP/IPv4) Properties“ (Fig. 3), check „Use the following IP address“ and type your static parameters, for example:

- IP address: 192.168.0.61;
- Subnet Mask: 255.255.255.0;
- Default gateway: 192.168.0.1.

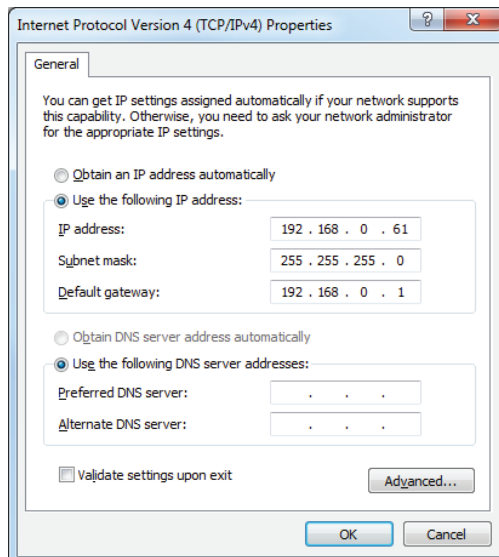


Fig. 3. Personal computer static IP address configuration

The air handling unit has external connection terminals in the control box, inside the air handling unit. Modbus A and B communication wires can be connected to 1 and 2 terminals of connection for external elements (Fig. 4, Fig. 5, Fig. 6). To connect devices use twisted pair cable. Maximum cable length is 150 m. C6 / C6M controller ground point and ground point of another Modbus device should be connected together, if distance between the RS-485 interfaces is more than 10 m. (Fig. 4, Fig. 5, Fig. 6).

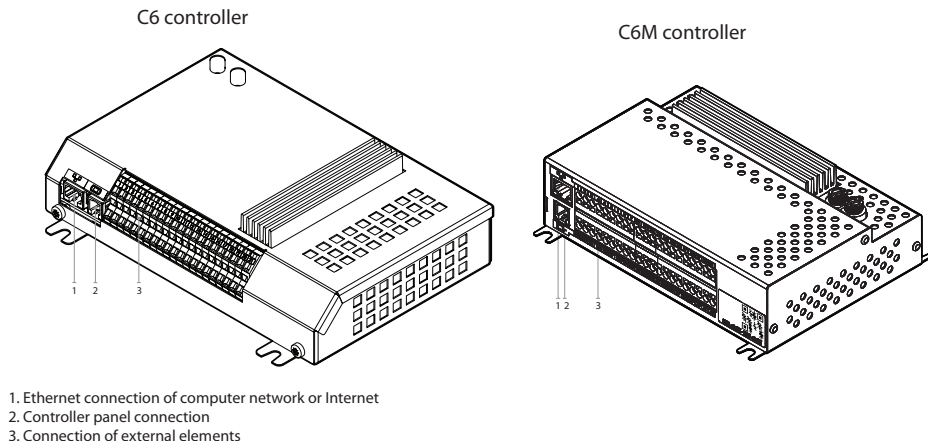


Fig. 4. C6 and C6M controllers with the connection terminals

RS485		TG1				DX		AUX				B1		B5		OUTPUTS				S1									
Modbus RTU		Water mixing valve actuator				External DX unit		24V DC; 0-10V output				Supply air temp. sensor		Return water temp. sensor		Common Heating Cooling Alarm				Water pump Max. load 100W									
A		B		0..10V		GND		+24V		0..10V		GND		+24V		NTC 10k		NTC 10k		C		NO		NO		NO		~230V	
1		2		3		4		5		6		7		8		9		10		11		12		13		14		15	
22		23		24		25		26		27		28		29		30		31		32		33		34		35		36	
NO		NO		NO		NC		C		C		0..10V		GND		+24V		0..10V		GND		+24V		0..10V		GND		+24V	
Override		Kitchen hood		Fireplace		Fire alarm		Common		Common		Supply air VAV sensor		Exhaust air VAV sensor		Air quality or humidity sensor 1		Air quality or humidity sensor 2		Air damper actuator		Max. load 15W							
INPUTS										B6				B7				B8				B9				FG1			

Fig. 5. C6 connection diagram for external elements

B6	Supply air VAV sensor	0..10V	22	1	NTC	Return water temperature sensor	B5
		GND	23	2	10k		
		+24V	24	3	NTC		
B7	Extract air VAV sensor	0..10V	25	4	10k	Supply air temperature sensor	B1
		GND	26	5	C		
		+24V	27	6	NO		
B8	Air quality or humidity sensor 1	0..10V	28	7	NC	Common Control Fire alarm Fireplace Kitchen Override	INPUTS
		GND	29	8	NO		
		+24V	30	9	NO		
B9	Air quality or humidity sensor 2	0..10V	31	10	NO	24V DC; 0..10V output	AUX
		GND	32	11	0..10V		
		+24V	33	12	GND		
OUTPUTS	Common	C	34	13	+24V	External DX unit	DX
	Heating	NO	35	14	+24V		
	Cooling	NO	36	15	0..10V		
	Alarm	NO	37	16	GND		
FG1	Air damper actuators Max. 15 W	~230V	38	17	0..10V	Water mixing valve actuator	TG1
		N	39	18	GND		
		N	40	19	+24V		
S1	Water pump Max. 100 W	~230V	41	20	A	Modbus RTU	RS485
		N	42	21	B		

Fig. 6. C6M connection diagram for external elements

Modbus TCP protocol works via Ethernet interface, connection is provided to RJ-45 socket on the C6 / C6M controller (Fig. 4). Default IP address is 192.168.0.60, and port is 502. To connect C6 / C6M controller via Modbus TCP make sure, that proxy servers or firewall isn't blocking device destination IP address and 502 port is opened. Controller IP address can be changed using the website (Fig. 2). Instructions how to connect and login to website was presented at Modbus RTU section. IP address and subnet mask also can be changed using C6.1 touch panel. To find these settings click touch C6.1 panel screen, click „Menu“ button, click „Settings“ button and don't release it, for more than 5 seconds, after that „Advanced settings“ window will pop-up. Click „Connectivity“ button and here you will find IP address and subnet mask (Fig. 7). If you want to change one of these parameters, just click on it and edit.

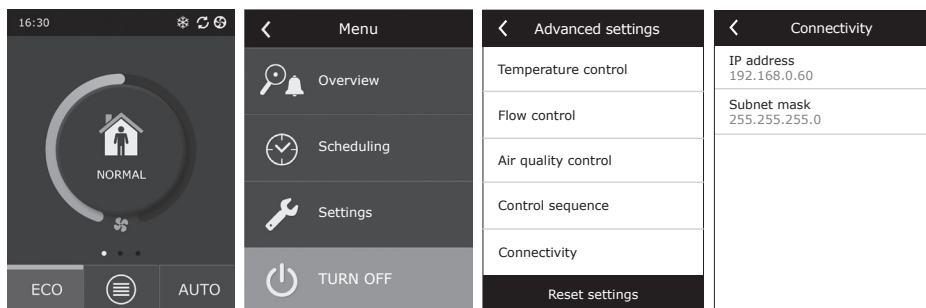


Fig. 7. C6.1 touch panel connectivity settings

For connection the CAT5 category cable should be used. The maximum cable length between device and controller C6 / C6M is 100 m.

C6 / C6M controller Modbus registers with descriptions are presented in Table 3.

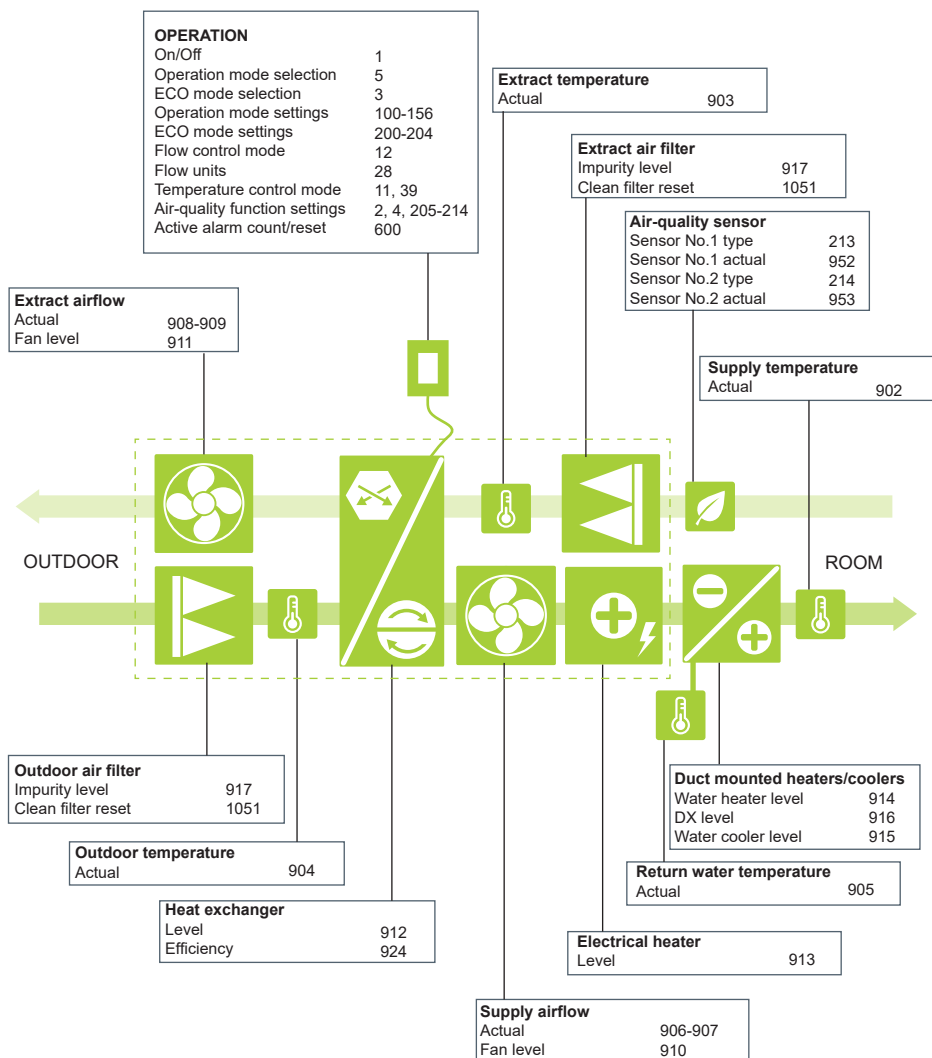


Table 3

Group	Subgroups	Register number	Register name	Data			Values and Units	Examples and comments
				Access	Type	Range		
Main control	Modes	1	ON/OFF status	R/W	unsigned char	0 - 1	Off = 0, On = 1	
		2	Auto mode control	RO	unsigned char	0 - 1	Scheduling = 0, Air Quality = 1	
		3	ECO mode	R/W	unsigned char	0 - 1	Off = 0, On = 1	
		4	AUTO mode	R/W	unsigned char	0 - 1	Off = 0, On = 1	
		5	Current mode	R/W	unsigned char	0 - 10	READ ONLY: Standby = 0, Away = 1, Normal = 2, Intensive = 3, Boost = 4, Kitchen = 5, Fireplace = 6, Override = 7, Holiday = 8, Air quality = 9, Off = 10 WRITE ONLY: Away = 1, Normal = 2, Intensive = 3, Boost = 4	
		6	Scheduler operation mode	R/W	unsigned char	0 - 3	StayAtHome = 0, WorkingWeek = 1, Office = 2, Custom = 3	
		7	Next mode	RO	unsigned char	0 - 8	Standby = 0, Away = 1, Normal = 2, Intensive = 3, Boost = 4, Kitchen = 5, Fireplace = 6, Override = 7, Holidays = 8	
		8	Next mode start time	RO	unsigned short	0 - 1439	Minutes	(0 - 1439 => 0:00 - 23:59); 130 => 2:10
		9	Next mode weekday	RO	unsigned char	0 - 7	Week days: None = 0, Mo = 1, Tu = 2, We = 3, Th = 4, Fr = 5, Sa = 6, Su = 7	
		10	Before been mode mask	RO	Unsigned char	0 - 31	Standby => 0, Away => 1 bit, Normal => 2 bit, Intensive => 3 bit, Boost => 4 bit	
	Temperature and flow control	11	Temperature control	R/W	unsigned char	0 - 3	Supply = 0, Extract = 1, Balance = 2, Room = 3	
		39	Room sensor	R/W	unsigned char	0 - 1	Panel temperature(1) = 0, Panel temperature(2) = 1	
		12	Flow control	R/W	unsigned char	0 - 2	CAV = 0, VAV = 1, DCV = 2, OFF = 3	
		13-14	Maximum supply flow	RO	unsigned int	0 - 200000	m3/h, l/s	
		15-16	Maximum extract flow	RO	unsigned int	0 - 200000	m3/h, l/s	
		17	Max supply pressure	R/W	unsigned short	0 - 1000	Pa	
		18	Max extract pressure	R/W	unsigned short	0 - 1000	Pa	

Group	Subgroups	Register number	Register name	Data			Values and Units	Examples and comments
				Access	Type	Range		
Main control	Control sequence	19	Stage 1	R/W	unsigned char	0 - 3	None = 0, External coil = 1, Electric heater = 2, External Dx unit = 3 ,	
		20	Stage 2	R/W	unsigned char	0 - 3	None = 0, External coil = 1, Electric heater = 2, External Dx unit = 3 ,	
		21	Stage 3	R/W	unsigned char	0 - 3	None = 0, External coil = 1, Electric heater = 2, External Dx unit = 3 ,	
		22	Coil type	R/W	unsigned char	0 - 1	Hot water = 0, Cold water = 1, Combi = 2,	
		40	Icing protection	R/W	unsigned char	0 - 2	Off = 0, On = 1, External coil = 2	Only for plate heat exchanger
		41	Indoor humidity	R/W	unsigned char	-1; 10 - 90	Auto = -1, Manual = 10-90%RH	Only for plate heat exchanger
	Connectivity	35	DHCP On/Off	R/W	unsigned char	0 - 1	Off = 0, On = 1	
		23-24	IP	R/W	unsigned int		default 192.168.0.60	
		25-26	Mask	R/W	unsigned int		default 255.255.255.0	
		36-37	Gateway	R/W	unsigned int		default 192.168.0.1	
		38	BACnet ID	R/W	unsigned int	0 - 4194303	default 60	
		44	Bacnet Port	R/W	unsigned short	1-65535	default 47808	
	Settings	27	Language	R/W	unsigned char	0-255	English = 0, Lithuanian = 1, Russian = 2, ...	
		28	Flow units	R/W	unsigned char	0 - 1	m3/h = 0, l/s = 1	
		42	Fire alarm restart	R/W	unsigned char	0 - 1	Manual = 0, Auto = 1	
	Time and date	29	Time, HH:MM	R/W	unsigned short	MSB 0x00 - 0x17, LSB 0x00 - 0x3B	MSB - hours, LSB - minutes	0x0B36 => 11:54
		30	Year	R/W	unsigned short	2017 - 2035	Year	0x07E0 => 2016
		31	Month/Day	R/W	unsigned short	MSB 0x01 - 0x0C, LSB 0x01 - 0x1F	MSB - month, LSB - day	0x020C => Feb12
		32	Week day	RO	unsigned char	1 - 7	Mo = 1, Tu = 2, We = 3, Th = 4, Fr = 5, Sa = 6, Su = 7	
		33-34	Time since 1970	RO	unsigned int	1483228800 - 2051222400	based on seconds since stand- ard epoch of 1/1/1970	1456329600 => 2016.02.24 16:00:00
Mode settings	Away	100-101	Supply flow	R/W	unsigned int	0 - 200000	m3/h, l/s, Pa, %	
		102-103	Extract flow	R/W	unsigned int	0 - 200000	m3/h, l/s, Pa, %	
		104	Setpoint	R/W	signed short	50 - 400	x10 C	
		105	Heating	R/W	unsigned char	0 - 1	Off = 0, On = 1	
	Normal	106-107	Supply flow	R/W	unsigned int	0 - 200000	m3/h, l/s, Pa, %	
		108-109	Extract flow	R/W	unsigned int	0 - 200000	m3/h, l/s, Pa, %	
		110	Setpoint	R/W	signed short	50 - 400	x10 C	
		111	Heating	R/W	unsigned char	0 - 1	Off = 0, On = 1	
	Intensive	112-113	Supply flow	R/W	unsigned int	0 - 200000	m3/h, l/s, Pa, %	
		114-115	Extract flow	R/W	unsigned int	0 - 200000	m3/h, l/s, Pa, %	
		116	Setpoint	R/W	signed short	50 - 400	x10 C	
		117	Heating	R/W	unsigned char	0 - 1	Off = 0, On = 1	

Group	Subgroups	Register number	Register name	Data			Values and Units	Examples and comments
				Access	Type	Range		
Mode settings	Boost	118-119	Supply flow	R/W	unsigned int	0 - 200000	m3/h, l/s, Pa, %	
		120-121	Extract flow	R/W	unsigned int	0 - 200000	m3/h, l/s, Pa, %	
		122	Setpoint	R/W	signed short	50 - 400	x10 C	
		123	Heating	R/W	unsigned char	0 - 1	Off = 0, On = 1	
	Kitchen	124-125	Supply flow	R/W	unsigned int	0 - 200000	m3/h, l/s, %	
		126-127	Extract flow	R/W	unsigned int	0 - 200000	m3/h, l/s, %	
		128	Setpoint	R/W	signed short	50 - 400	x10 C	
		129	Heating	R/W	unsigned char	0 - 1	Off = 0, On = 1	
	Fireplace	130	Timer time	R/W	unsigned short	0 - 300	Minutes	
		131-132	Supply flow	R/W	unsigned int	0 - 200000	m3/h, l/s, %	
		133-134	Extract flow	R/W	unsigned int	0 - 200000	m3/h, l/s, %	
		135	Setpoint	R/W	signed short	50 - 400	x10 C	
	Override	136	Heating	R/W	unsigned char	0 - 1	Off = 0, On = 1	
		137	Timer time	R/W	unsigned short	0 - 300	Minutes	
		138-139	Supply flow	R/W	unsigned int	0 - 200000	m3/h, l/s, %	
		140-141	Extract flow	R/W	unsigned int	0 - 200000	m3/h, l/s, %	
		142	Setpoint	R/W	signed short	50 - 400	x10 C	
		143	Heating	R/W	unsigned char	0 - 1	Off = 0, On = 1	
		144	Mode	R/W	unsigned char	0 - 2	All time = 0, If on = 1, If off = 2	
		145	Timer time	R/W	unsigned short	0 - 300	Minutes	
	Holidays	157	Delayed start	R/W	unsigned char	0 - 10	Minutes	
		158	Delayed stop	R/W	unsigned char	0 - 30	Minutes	
		146	Microventilation	R/W	unsigned char	1 - 4	Once per day = 1, Twice per day = 2, Thrice per day = 3, Four times per day = 4,	
		147	Setpoint	R/W	signed short	50 - 400	x10 C	
		148	Heating	R/W	unsigned char	0 - 1	Off = 0, On = 1	
		149-150	From Day/Month	R/W	unsigned int	1483228800 - 2051222400	based on seconds since standard epoch of 1/1/1970	1456329600 => 2016.02.24 16:00:00
		151-152	Till Day/Month	R/W	unsigned int	1483228800 - 2051222400	based on seconds since standard epoch of 1/1/1970	1456329600 => 2016.02.24 16:00:00
		153	Year, from	R/W	unsigned short	2017 - 2035		
Eco	Eco	154	Month/Day, from	R/W	unsigned short	MSB 0x01 - 0x0C, LSB 0x01 - 0x1F	MSB = month, LSB = day	0x020C => Feb12
		155	Year, till	R/W	unsigned short	2017 - 2035		
		156	Month/Day, till	R/W	unsigned short	MSB 0x01 - 0x0C, LSB 0x01 - 0x1F	MSB = month, LSB = day	0x020C => Feb12
		200	Minimum supply air temperature	R/W	unsigned short	50 - 400	x10 C	
		201	Maximum supply air temperature	R/W	unsigned short	50 - 400	x10 C	
		202	Free heating/cooling	R/W	unsigned char	0 - 1	Off = 0, On = 1	
		203	Heating enable denied	R/W	unsigned char	0 - 1	Off = 0, On = 1	
		204	Cooling enable denied	R/W	unsigned char	0 - 1	Off = 0, On = 1	
		217	Heat recovery control	R/W	unsigned char	0 - 2	Auto = 0, Constant = 1, Non stop = 2	

Group	Subgroups	Register number	Register name	Data			Values and Units	Examples and comments		
				Access	Type	Range				
Air quality	Air quality	205	Air quality Enable	R/W	unsigned char	0 - 1	Disabled = 0, Enabled = 1			
		206	Temperature setpoint	R/W	signed short	50 - 400	x10 C			
		207	Air quality setpoint	R/W	unsigned short	CO2: 0 - 2000, VOC: 0 - 100,	ppm, %			
		208	Humidity setpoint	R/W	unsigned short	RH: 0 - 100,	%			
		209	Air quality minimum intensivity	R/W	unsigned char	0, 20 - 100	%			
		210	Air quality maximum intensivity	R/W	unsigned char	0, 20 - 100	%			
		211	Air quality heating	R/W	unsigned char	0 - 1	Off = 0, On = 1			
		212	Air quality check period	R/W	unsigned char	1 - 24	Hours			
		213	Air quality sensor type B8	R/W	unsigned char	0 - 3	None = 0, CO2 = 1, VOC = 2, RH = 3			
		214	Air quality sensor type B9	R/W	unsigned char	0 - 3	None = 0, CO2 = 1, VOC = 2, RH = 3			
Scheduler	Stay at home	Operation program 1	Weekday mask	300	Weekday mask	R/W	unsigned char	0b00000000 - 0b01111111	Mo => 0 bit, Tu => 1 bit, We => 2 bit, Th => 3 bit, Fr => 4 bit, Sa => 5 bit, Su => 6 bit	
			Event 1	301	Mode	R/W	unsigned char	0 - 4	Standby = 0, Away = 1, Normal =2, Intensive =3, Boost = 4	
				302	Start time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05
				303	Stop time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05
			Event 2	304	Mode	R/W	unsigned char	0 - 4	Standby = 0, Away = 1, Normal =2, Intensive =3, Boost = 4	
				305	Start time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05
				306	Stop time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05
			Event 3	307	Mode	R/W	unsigned char	0 - 4	Standby = 0, Away = 1, Normal =2, Intensive =3, Boost = 4	
				308	Start time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05
				309	Stop time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05
			Event 4	310	Mode	R/W	unsigned char	0 - 4	Standby = 0, Away = 1, Normal =2, Intensive =3, Boost = 4	
				311	Start time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05
				312	Stop time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05
			Event 5	313	Mode	R/W	unsigned char	0 - 4	Standby = 0, Away = 1, Normal =2, Intensive =3, Boost = 4	
				314	Start time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05
				315	Stop time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05

Group	Subgroups	Register number	Register name	Data			Values and Units	Examples and comments
				Access	Type	Range		
Scheduler	Stay at home	Operation program 1	Weekday mask				Mo => 0 bit, Tu => 1 bit, We => 2 bit, Th => 3 bit, Fr => 4 bit, Sa => 5 bit, Su => 6 bit	
			316 Weekday mask	R/W	unsigned char	0b00000000-0b01111111		
			317 Mode	R/W	unsigned char	0 - 4	Standby = 0, Away = 1, Normal =2, Intensive =3, Boost = 4	
			318 Start time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05
	Operation program 2	Event 1	319 Stop time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05
			320 Mode	R/W	unsigned char	0 - 4	Standby = 0, Away = 1, Normal =2, Intensive =3, Boost = 4	
			321 Start time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05
		Event 2	322 Stop time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05
			323 Mode	R/W	unsigned char	0 - 4	Standby = 0, Away = 1, Normal =2, Intensive =3, Boost = 4	
			324 Start time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05
		Event 3	325 Stop time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05
			326 Mode	R/W	unsigned char	0 - 4	Standby = 0, Away = 1, Normal =2, Intensive =3, Boost = 4	
			327 Start time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05
		Event 4	328 Stop time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05
			329 Mode	R/W	unsigned char	0 - 4	Standby = 0, Away = 1, Normal =2, Intensive =3, Boost = 4	
			330 Start time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05
		Event 5	331 Stop time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05
	Operation program 3	Weekday mask	332 Weekday mask	R/W	unsigned char	0b00000000-0b01111111	Mo => 0 bit, Tu => 1 bit, We => 2 bit, Th => 3 bit, Fr => 4 bit, Sa => 5 bit, Su => 6 bit	
			333 Mode	R/W	unsigned char	0 - 4	Standby = 0, Away = 1, Normal =2, Intensive =3, Boost = 4	
			334 Start time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05
		Event 1	335 Stop time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05
			336 Mode	R/W	unsigned char	0 - 4	Standby = 0, Away = 1, Normal =2, Intensive =3, Boost = 4	
			337 Start time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05
	Operation program 3	Event 2	338 Stop time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05

Group	Subgroups	Register number	Register name	Data			Values and Units	Examples and comments
				Access	Type	Range		
Scheduler	Stay at home	Event 3	339 Mode	R/W	unsigned char	0 - 4	Standby = 0, Away = 1, Normal = 2, Intensive = 3, Boost = 4	
			340 Start time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05
			341 Stop time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05
		Event 4	342 Mode	R/W	unsigned char	0 - 4	Standby = 0, Away = 1, Normal = 2, Intensive = 3, Boost = 4	
			343 Start time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05
			344 Stop time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05
		Event 5	345 Mode	R/W	unsigned char	0 - 4	Standby = 0, Away = 1, Normal = 2, Intensive = 3, Boost = 4	
			346 Start time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05
			347 Stop time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05
		Weekday mask	348 Weekday mask	R/W	unsigned char	0b00000000- 0b01111111	Mo => 0 bit, Tu => 1 bit, We => 2 bit, Th => 3 bit, Fr => 4 bit, Sa => 5 bit, Su => 6 bit	
		Event 1	349 Mode	R/W	unsigned char	0 - 4	Standby = 0, Away = 1, Normal = 2, Intensive = 3, Boost = 4	
			350 Start time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05
			351 Stop time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05
		Event 2	352 Mode	R/W	unsigned char	0 - 4	Standby = 0, Away = 1, Normal = 2, Intensive = 3, Boost = 4	
			353 Start time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05
			354 Stop time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05
	Operation program 4	Event 3	355 Mode	R/W	unsigned char	0 - 4	Standby = 0, Away = 1, Normal = 2, Intensive = 3, Boost = 4	
			356 Start time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05
			357 Stop time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05
		Event 4	358 Mode	R/W	unsigned char	0 - 4	Standby = 0, Away = 1, Normal = 2, Intensive = 3, Boost = 4	
			359 Start time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05
			360 Stop time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05
		Event 5	361 Mode	R/W	unsigned char	0 - 4	Standby = 0, Away = 1, Normal = 2, Intensive = 3, Boost = 4	
			362 Start time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05
			363 Stop time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05

Group	Subgroups		Register number	Register name	Data			Values and Units	Examples and comments
					Access	Type	Range		
Scheduler	Working week	Operation program 1	Weekday mask	364	Weekday mask	R/W	unsigned char	0b00000000 - 0b01111111	Mo => 0 bit, Tu => 1 bit, We => 2 bit, Th => 3 bit, Fr => 4 bit, Sa => 5 bit, Su => 6 bit
			Event 1	365	Mode	R/W	unsigned char	0 - 4	Standby = 0, Away = 1, Normal = 2, Intensive = 3, Boost = 4
				366	Start time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes 0x0805 => 8:05
				367	Stop time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes 0x0805 => 8:05
		Event 2		368	Mode	R/W	unsigned char	0 - 4	Standby = 0, Away = 1, Normal = 2, Intensive = 3, Boost = 4
				369	Start time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes 0x0805 => 8:05
				370	Stop time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes 0x0805 => 8:05
		Event 3		371	Mode	R/W	unsigned char	0 - 4	Standby = 0, Away = 1, Normal = 2, Intensive = 3, Boost = 4
				372	Start time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes 0x0805 => 8:05
				373	Stop time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes 0x0805 => 8:05
		Event 4		374	Mode	R/W	unsigned char	0 - 4	Standby = 0, Away = 1, Normal = 2, Intensive = 3, Boost = 4
				375	Start time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes 0x0805 => 8:05
				376	Stop time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes 0x0805 => 8:05
		Event 5		377	Mode	R/W	unsigned char	0 - 4	Standby = 0, Away = 1, Normal = 2, Intensive = 3, Boost = 4
				378	Start time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes 0x0805 => 8:05
				379	Stop time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes 0x0805 => 8:05
		Operation program 2	Weekday mask	380	Weekday mask	R/W	unsigned char	0b00000000 - 0b01111111	Mo => 0 bit, Tu => 1 bit, We => 2 bit, Th => 3 bit, Fr => 4 bit, Sa => 5 bit, Su => 6 bit
			Event 1	381	Mode	R/W	unsigned char	0 - 4	Standby = 0, Away = 1, Normal = 2, Intensive = 3, Boost = 4
				382	Start time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes 0x0805 => 8:05
				383	Stop time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes 0x0805 => 8:05
			Event 2	384	Mode	R/W	unsigned char	0 - 4	Standby = 0, Away = 1, Normal = 2, Intensive = 3, Boost = 4
				385	Start time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes 0x0805 => 8:05
				386	Stop time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes 0x0805 => 8:05

Group	Subgroups	Register number	Register name	Data			Values and Units	Examples and comments
				Access	Type	Range		
Scheduler	Working week	Event 3	387 Mode	R/W	unsigned char	0 - 4	Standby = 0, Away = 1, Normal = 2, Intensive = 3, Boost = 4	
			388 Start time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05
			389 Stop time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05
		Event 4	390 Mode	R/W	unsigned char	0 - 4	Standby = 0, Away = 1, Normal = 2, Intensive = 3, Boost = 4	
			391 Start time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05
			392 Stop time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05
		Event 5	393 Mode	R/W	unsigned char	0 - 4	Standby = 0, Away = 1, Normal = 2, Intensive = 3, Boost = 4	
			394 Start time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05
			395 Stop time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05
	Operation program 3	Weekday mask	396 Weekday mask	R/W	unsigned char	0b00000000- 0b01111111	Mo => 0 bit, Tu => 1 bit, We => 2 bit, Th => 3 bit, Fr => 4 bit, Sa => 5 bit, Su => 6 bit	
		Event 1	397 Mode	R/W	unsigned char	0 - 4	Standby = 0, Away = 1, Normal = 2, Intensive = 3, Boost = 4	
			398 Start time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05
			399 Stop time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05
		Event 2	400 Mode	R/W	unsigned char	0 - 4	Standby = 0, Away = 1, Normal = 2, Intensive = 3, Boost = 4	
			401 Start time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05
			402 Stop time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05
		Event 3	403 Mode	R/W	unsigned char	0 - 4	Standby = 0, Away = 1, Normal = 2, Intensive = 3, Boost = 4	
			404 Start time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05
			405 Stop time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05
		Event 4	406 Mode	R/W	unsigned char	0 - 4	Standby = 0, Away = 1, Normal = 2, Intensive = 3, Boost = 4	
			407 Start time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05
			408 Stop time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05
		Event 5	409 Mode	R/W	unsigned char	0 - 4	Standby = 0, Away = 1, Normal = 2, Intensive = 3, Boost = 4	
			410 Start time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05
			411 Stop time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05

Group	Subgroups		Register number	Register name	Data			Values and Units	Examples and comments
					Access	Type	Range		
Scheduler	Working week	Operation program 4	Weekday mask	412	Weekday mask	R/W	unsigned char	0b00000000-0b01111111	Mo => 0 bit, Tu => 1 bit, We => 2 bit, Th => 3 bit, Fr => 4 bit, Sa => 5 bit, Su => 6 bit
			Event 1	413	Mode	R/W	unsigned char	0 - 4	Standby = 0, Away = 1, Normal = 2, Intensive = 3, Boost = 4
				414	Start time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes 0x0805 => 8:05
				415	Stop time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes 0x0805 => 8:05
		Event 2		416	Mode	R/W	unsigned char	0 - 4	Standby = 0, Away = 1, Normal = 2, Intensive = 3, Boost = 4
				417	Start time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes 0x0805 => 8:05
				418	Stop time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes 0x0805 => 8:05
		Event 3		419	Mode	R/W	unsigned char	0 - 4	Standby = 0, Away = 1, Normal = 2, Intensive = 3, Boost = 4
				420	Start time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes 0x0805 => 8:05
				421	Stop time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes 0x0805 => 8:05
		Event 4		422	Mode	R/W	unsigned char	0 - 4	Standby = 0, Away = 1, Normal = 2, Intensive = 3, Boost = 4
				423	Start time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes 0x0805 => 8:05
				424	Stop time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes 0x0805 => 8:05
		Event 5		425	Mode	R/W	unsigned char	0 - 4	Standby = 0, Away = 1, Normal = 2, Intensive = 3, Boost = 4
				426	Start time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes 0x0805 => 8:05
				427	Stop time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes 0x0805 => 8:05
	Office	Operation program 1	Weekday mask	428	Weekday mask	R/W	unsigned char	0b00000000 - 0b01111111	Mo => 0 bit, Tu => 1 bit, We => 2 bit, Th => 3 bit, Fr => 4 bit, Sa => 5 bit, Su => 6 bit
			Event 1	429	Mode	R/W	unsigned char	0 - 4	Standby = 0, Away = 1, Normal = 2, Intensive = 3, Boost = 4
				430	Start time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes 0x0805 => 8:05
				431	Stop time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes 0x0805 => 8:05
			Event 2	432	Mode	R/W	unsigned char	0 - 4	Standby = 0, Away = 1, Normal = 2, Intensive = 3, Boost = 4
				433	Start time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes 0x0805 => 8:05
				434	Stop time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes 0x0805 => 8:05

Group	Subgroups	Register number	Register name	Data			Values and Units	Examples and comments
				Access	Type	Range		
Scheduler	Office	Event 3	435 Mode	R/W	unsigned char	0 - 4	Standby = 0, Away = 1, Normal = 2, Intensive = 3, Boost = 4	
			436 Start time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05
			437 Stop time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05
		Event 4	438 Mode	R/W	unsigned char	0 - 4	Standby = 0, Away = 1, Normal = 2, Intensive = 3, Boost = 4	
			439 Start time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05
			440 Stop time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05
		Event 5	441 Mode	R/W	unsigned char	0 - 4	Standby = 0, Away = 1, Normal = 2, Intensive = 3, Boost = 4	
			442 Start time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05
			443 Stop time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05
		Weekday mask	444 Weekday mask	R/W	unsigned char	0b00000000- 0b01111111	Mo => 0 bit, Tu => 1 bit, We => 2 bit, Th => 3 bit, Fr => 4 bit, Sa => 5 bit, Su => 6 bit	
		Event 1	445 Mode	R/W	unsigned char	0 - 4	Standby = 0, Away = 1, Normal = 2, Intensive = 3, Boost = 4	
			446 Start time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05
			447 Stop time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05
	Operation program 2	Event 2	448 Mode	R/W	unsigned char	0 - 4	Standby = 0, Away = 1, Normal = 2, Intensive = 3, Boost = 4	
			449 Start time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05
			450 Stop time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05
		Event 3	451 Mode	R/W	unsigned char	0 - 4	Standby = 0, Away = 1, Normal = 2, Intensive = 3, Boost = 4	
			452 Start time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05
			453 Stop time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05
		Event 4	454 Mode	R/W	unsigned char	0 - 4	Standby = 0, Away = 1, Normal = 2, Intensive = 3, Boost = 4	
			455 Start time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05
			456 Stop time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05
		Event 5	457 Mode	R/W	unsigned char	0 - 4	Standby = 0, Away = 1, Normal = 2, Intensive = 3, Boost = 4	
			458 Start time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05
			459 Stop time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05

Group	Subgroups		Register number	Register name	Data			Values and Units	Examples and comments
					Access	Type	Range		
Scheduler	Office	Operation program 3	Weekday mask	460 Weekday mask	R/W	unsigned char	0b00000000-0b01111111	Mo => 0 bit, Tu => 1 bit, We => 2 bit, Th => 3 bit, Fr => 4 bit, Sa => 5 bit, Su => 6 bit	
			Event 1	461 Mode	R/W	unsigned char	0 - 4	Standby = 0, Away = 1, Normal =2, Intensive =3, Boost = 4	
				462 Start time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05
				463 Stop time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05
			Event 2	464 Mode	R/W	unsigned char	0 - 4	Standby = 0, Away = 1, Normal =2, Intensive =3, Boost = 4	
				465 Start time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05
				466 Stop time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05
			Event 3	467 Mode	R/W	unsigned char	0 - 4	Standby = 0, Away = 1, Normal =2, Intensive =3, Boost = 4	
				468 Start time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05
				469 Stop time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05
			Event 4	470 Mode	R/W	unsigned char	0 - 4	Standby = 0, Away = 1, Normal =2, Intensive =3, Boost = 4	
				471 Start time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05
				472 Stop time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05
			Event 5	473 Mode	R/W	unsigned char	0 - 4	Standby = 0, Away = 1, Normal =2, Intensive =3, Boost = 4	
				474 Start time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05
				475 Stop time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05
		Operation program 4	Weekday mask	476 Weekday mask	R/W	unsigned char	0b00000000-0b01111111	Mo => 0 bit, Tu => 1 bit, We => 2 bit, Th => 3 bit, Fr => 4 bit, Sa => 5 bit, Su => 6 bit	
			Event 1	477 Mode	R/W	unsigned char	0 - 4	Standby = 0, Away = 1, Normal =2, Intensive =3, Boost = 4	
				478 Start time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05
				479 Stop time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05
			Event 2	480 Mode	R/W	unsigned char	0 - 4	Standby = 0, Away = 1, Normal =2, Intensive =3, Boost = 4	
				481 Start time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05
				482 Stop time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05

Group	Subgroups	Register number	Register name	Data			Values and Units	Examples and comments
				Access	Type	Range		
Scheduler	Custom	Event 3	483 Mode	R/W	unsigned char	0 - 4	Standby = 0, Away = 1, Normal = 2, Intensive = 3, Boost = 4	
			484 Start time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05
			485 Stop time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05
		Event 4	486 Mode	R/W	unsigned char	0 - 4	Standby = 0, Away = 1, Normal = 2, Intensive = 3, Boost = 4	
			487 Start time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05
			488 Stop time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05
		Event 5	489 Mode	R/W	unsigned char	0 - 4	Standby = 0, Away = 1, Normal = 2, Intensive = 3, Boost = 4	
			490 Start time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05
			491 Stop time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05
		Weekday mask	492 Weekday mask	R/W	unsigned char	0b00000000 - 0b01111111	Mo => 0 bit, Tu => 1 bit, We => 2 bit, Th => 3 bit, Fr => 4 bit, Sa => 5 bit, Su => 6 bit	
		Event 1	493 Mode	R/W	unsigned char	0 - 4	Standby = 0, Away = 1, Normal = 2, Intensive = 3, Boost = 4	
			494 Start time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05
			495 Stop time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05
	Operation program 1	Event 2	496 Mode	R/W	unsigned char	0 - 4	Standby = 0, Away = 1, Normal = 2, Intensive = 3, Boost = 4	
			497 Start time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05
			498 Stop time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05
		Event 3	499 Mode	R/W	unsigned char	0 - 4	Standby = 0, Away = 1, Normal = 2, Intensive = 3, Boost = 4	
			500 Start time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05
			501 Stop time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05
		Event 4	502 Mode	R/W	unsigned char	0 - 4	Standby = 0, Away = 1, Normal = 2, Intensive = 3, Boost = 4	
			503 Start time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05
			504 Stop time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05
		Event 5	505 Mode	R/W	unsigned char	0 - 4	Standby = 0, Away = 1, Normal = 2, Intensive = 3, Boost = 4	
			506 Start time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05
			507 Stop time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05

Group	Subgroups		Register number	Register name	Data			Values and Units	Examples and comments
					Access	Type	Range		
Scheduler	Custom	Operation program 2	Weekday mask	508	Weekday mask	R/W	unsigned char	0b00000000-0b01111111	Mo => 0 bit, Tu => 1 bit, We => 2 bit, Th => 3 bit, Fr => 4 bit, Sa => 5 bit, Su => 6 bit
			Event 1	509	Mode	R/W	unsigned char	0 - 4	Standby = 0, Away = 1, Normal = 2, Intensive = 3, Boost = 4
				510	Start time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes 0x0805 => 8:05
				511	Stop time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes 0x0805 => 8:05
			Event 2	512	Mode	R/W	unsigned char	0 - 4	Standby = 0, Away = 1, Normal = 2, Intensive = 3, Boost = 4
				513	Start time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes 0x0805 => 8:05
				514	Stop time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes 0x0805 => 8:05
			Event 3	515	Mode	R/W	unsigned char	0 - 4	Standby = 0, Away = 1, Normal = 2, Intensive = 3, Boost = 4
				516	Start time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes 0x0805 => 8:05
				517	Stop time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes 0x0805 => 8:05
			Event 4	518	Mode	R/W	unsigned char	0 - 4	Standby = 0, Away = 1, Normal = 2, Intensive = 3, Boost = 4
				519	Start time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes 0x0805 => 8:05
				520	Stop time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes 0x0805 => 8:05
			Event 5	521	Mode	R/W	unsigned char	0 - 4	Standby = 0, Away = 1, Normal = 2, Intensive = 3, Boost = 4
				522	Start time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes 0x0805 => 8:05
				523	Stop time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes 0x0805 => 8:05
		Operation program 3	Weekday mask	524	Weekday mask	R/W	unsigned char	0b00000000-0b01111111	Mo => 0 bit, Tu => 1 bit, We => 2 bit, Th => 3 bit, Fr => 4 bit, Sa => 5 bit, Su => 6 bit
			Event 1	525	Mode	R/W	unsigned char	0 - 4	Standby = 0, Away = 1, Normal = 2, Intensive = 3, Boost = 4
				526	Start time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes 0x0805 => 8:05
				527	Stop time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes 0x0805 => 8:05
			Event 2	528	Mode	R/W	unsigned char	0 - 4	Standby = 0, Away = 1, Normal = 2, Intensive = 3, Boost = 4
				529	Start time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes 0x0805 => 8:05
				530	Stop time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes 0x0805 => 8:05

Group	Subgroups	Register number	Register name	Data			Values and Units	Examples and comments
				Access	Type	Range		
Scheduler	Custom	Event 3	531 Mode	R/W	unsigned char	0 - 4	Standby = 0, Away = 1, Normal = 2, Intensive = 3, Boost = 4	
			532 Start time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05
			533 Stop time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05
		Event 4	534 Mode	R/W	unsigned char	0 - 4	Standby = 0, Away = 1, Normal = 2, Intensive = 3, Boost = 4	
			535 Start time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05
			536 Stop time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05
		Event 5	537 Mode	R/W	unsigned char	0 - 4	Standby = 0, Away = 1, Normal = 2, Intensive = 3, Boost = 4	
			538 Start time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05
			539 Stop time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05
		Weekday mask	540 Weekday mask	R/W	unsigned char	0b00000000- 0b01111111	Mo => 0 bit, Tu => 1 bit, We => 2 bit, Th => 3 bit, Fr => 4 bit, Sa => 5 bit, Su => 6 bit	
		Event 1	541 Mode	R/W	unsigned char	0 - 4	Standby = 0, Away = 1, Normal = 2, Intensive = 3, Boost = 4	
			542 Start time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05
			543 Stop time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05
		Event 2	544 Mode	R/W	unsigned char	0 - 4	Standby = 0, Away = 1, Normal = 2, Intensive = 3, Boost = 4	
			545 Start time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05
			546 Stop time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05
		Event 3	547 Mode	R/W	unsigned char	0 - 4	Standby = 0, Away = 1, Normal = 2, Intensive = 3, Boost = 4	
			548 Start time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05
			549 Stop time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05
		Event 4	550 Mode	R/W	unsigned char	0 - 4	Standby = 0, Away = 1, Normal = 2, Intensive = 3, Boost = 4	
			551 Start time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05
			552 Stop time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05
		Event 5	553 Mode	R/W	unsigned char	0 - 4	Standby = 0, Away = 1, Normal = 2, Intensive = 3, Boost = 4	
			554 Start time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05
			555 Stop time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05

Group	Subgroups	Register number	Register name	Data			Values and Units	Examples and comments
				Access	Type	Range		
Alarms	Active alarms	600	Active alarms count	R/W	unsigned char	0 - 10		Writing 0x99C6 - Active alarms reset and restore previous mode
		601	Active alarm 1 code (newest)	RO	unsigned char	0x01 - 0xFF		0x02 => 2F (MSb = 0), 0x82 => 2W (MSb = 1)
		602	Active alarm 2 code	RO	unsigned char	0x01 - 0xFF		0x02 => 2F (MSb = 0), 0x82 => 2W (MSb = 1)
		603	Active alarm 3 code	RO	unsigned char	0x01 - 0xFF		0x02 => 2F (MSb = 0), 0x82 => 2W (MSb = 1)
		604	Active alarm 4 code	RO	unsigned char	0x01 - 0xFF		0x02 => 2F (MSb = 0), 0x82 => 2W (MSb = 1)
		605	Active alarm 5 code	RO	unsigned char	0x01 - 0xFF		0x02 => 2F (MSb = 0), 0x82 => 2W (MSb = 1)
		606	Active alarm 6 code	RO	unsigned char	0x01 - 0xFF		0x02 => 2F (MSb = 0), 0x82 => 2W (MSb = 1)
		607	Active alarm 7 code	RO	unsigned char	0x01 - 0xFF		0x02 => 2F (MSb = 0), 0x82 => 2W (MSb = 1)
		608	Active alarm 8 code	RO	unsigned char	0x01 - 0xFF		0x02 => 2F (MSb = 0), 0x82 => 2W (MSb = 1)
		609	Active alarm 9 code	RO	unsigned char	0x01 - 0xFF		0x02 => 2F (MSb = 0), 0x82 => 2W (MSb = 1)
		610	Active alarm 10 code	RO	unsigned char	0x01 - 0xFF		0x02 => 2F (MSb = 0), 0x82 => 2W (MSb = 1)
	Alarms history	Alarm 1	611	Alarm history count	RO	unsigned char	0 - 50	
			612	Alarm (newest) year	RO	unsigned short	2016 - 2250	Year
			613	Alarm (newest) month-day	RO	unsigned short	01.01 - 12.31	Month and day
			614	Alarm (newest) time	RO	unsigned short	0:00 - 23:59	Hours and minutes
			615	Alarm (newest) seconds	RO	unsigned char	0 - 59	Seconds
		Alarm 2	616	Alarm (newest) code	RO	unsigned char	1 - 127 F alarms, 129 - 255 W alarms	0x02 => 2F (MSb = 0), 0x82 => 2W (MSb = 1)
			617	Alarm year	RO	unsigned short	2016 - 2250	Year
			618	Alarm month-day	RO	unsigned short	01.01 - 12.31	Month and day
			619	Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes
			620	Alarm seconds	RO	unsigned char	0 - 59	Seconds
			621	Alarm code	RO	unsigned char	1 - 127 F alarms, 129 - 255 W alarms	0x02 => 2F (MSb = 0), 0x82 => 2W (MSb = 1)

Group	Subgroups	Register number	Register name	Data			Values and Units	Examples and comments
				Access	Type	Range		
Alarms	Alarms history	Alarm 3	622 Alarm year	RO	unsigned short	2016 - 2250	Year	
			623 Alarm month-day	RO	unsigned short	01.01 - 12.31	Month and day	0x020C => Feb12
			624 Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes	0x0805 => 8:05
			625 Alarm seconds	RO	unsigned char	0 - 59	Seconds	
		626 Alarm code	RO	unsigned char	1 - 127 F alarms, 129 - 255 W alarms			0x02 => 2F (MSb = 0), 0x82 => 2W (MSb = 1)
		Alarm 4	627 Alarm year	RO	unsigned short	2016 - 2250	Year	
			628 Alarm month-day	RO	unsigned short	01.01 - 12.31	Month and day	0x020C => Feb12
			629 Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes	0x0805 => 8:05
			630 Alarm seconds	RO	unsigned char	0 - 59	Seconds	
		631 Alarm code	RO	unsigned char	1 - 127 F alarms, 129 - 255 W alarms			0x02 => 2F (MSb = 0), 0x82 => 2W (MSb = 1)
		Alarm 5	632 Alarm year	RO	unsigned short	2016 - 2250	Year	
			633 Alarm month-day	RO	unsigned short	01.01 - 12.31	Month and day	0x020C => Feb12
			634 Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes	0x0805 => 8:05
			635 Alarm seconds	RO	unsigned char	0 - 59	Seconds	
		636 Alarm code	RO	unsigned char	1 - 127 F alarms, 129 - 255 W alarms			0x02 => 2F (MSb = 0), 0x82 => 2W (MSb = 1)
		Alarm 6	637 Alarm year	RO	unsigned short	2016 - 2250	Year	
			638 Alarm month-day	RO	unsigned short	01.01 - 12.31	Month and day	0x020C => Feb12
			639 Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes	0x0805 => 8:05
			640 Alarm seconds	RO	unsigned char	0 - 59	Seconds	
		641 Alarm code	RO	unsigned char	1 - 127 F alarms, 129 - 255 W alarms			0x02 => 2F (MSb = 0), 0x82 => 2W (MSb = 1)
		Alarm 7	642 Alarm year	RO	unsigned short	2016 - 2250	Year	
			643 Alarm month-day	RO	unsigned short	01.01 - 12.31	Month and day	0x020C => Feb12
			644 Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes	0x0805 => 8:05
			645 Alarm seconds	RO	unsigned char	0 - 59	Seconds	
		646 Alarm code	RO	unsigned char	1 - 127 F alarms, 129 - 255 W alarms			0x02 => 2F (MSb = 0), 0x82 => 2W (MSb = 1)
		Alarm 8	647 Alarm year	RO	unsigned short	2016 - 2250	Year	
			648 Alarm month-day	RO	unsigned short	01.01 - 12.31	Month and day	0x020C => Feb12
			649 Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes	0x0805 => 8:05
			650 Alarm seconds	RO	unsigned char	0 - 59	Seconds	
		651 Alarm code	RO	unsigned char	1 - 127 F alarms, 129 - 255 W alarms			0x02 => 2F (MSb = 0), 0x82 => 2W (MSb = 1)
		Alarm 9	652 Alarm year	RO	unsigned short	2016 - 2250	Year	
			653 Alarm month-day	RO	unsigned short	01.01 - 12.31	Month and day	0x020C => Feb12
			654 Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes	0x0805 => 8:05
			655 Alarm seconds	RO	unsigned char	0 - 59	Seconds	
		656 Alarm code	RO	unsigned char	1 - 127 F alarms, 129 - 255 W alarms			0x02 => 2F (MSb = 0), 0x82 => 2W (MSb = 1)

Group	Subgroups	Register number	Register name	Data			Values and Units	Examples and comments
				Access	Type	Range		
Alarms	Alarms history	Alarm 10	657 Alarm year	RO	unsigned short	2016 - 2250	Year	
			658 Alarm month-day	RO	unsigned short	01.01 - 12.31	Month and day	0x020C => Feb12
			659 Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes	0x0805 => 8:05
			660 Alarm seconds	RO	unsigned char	0 - 59	Seconds	
			661 Alarm code	RO	unsigned char	1 - 127 F alarms, 129 - 255 W alarms		0x02 => 2F (MSb = 0), 0x82 => 2W (MSb = 1)
		Alarm 11	662 Alarm year	RO	unsigned short	2016 - 2250	Year	
			663 Alarm month-day	RO	unsigned short	01.01 - 12.31	Month and day	0x020C => Feb12
			664 Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes	0x0805 => 8:05
			665 Alarm seconds	RO	unsigned char	0 - 59	Seconds	
			666 Alarm code	RO	unsigned char	1 - 127 F alarms, 129 - 255 W alarms		0x02 => 2F (MSb = 0), 0x82 => 2W (MSb = 1)
		Alarm 12	667 Alarm year	RO	unsigned short	2016 - 2250	Year	
			668 Alarm month-day	RO	unsigned short	01.01 - 12.31	Month and day	0x020C => Feb12
			669 Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes	0x0805 => 8:05
			670 Alarm seconds	RO	unsigned char	0 - 59	Seconds	
			671 Alarm code	RO	unsigned char	1 - 127 F alarms, 129 - 255 W alarms		0x02 => 2F (MSb = 0), 0x82 => 2W (MSb = 1)
		Alarm 13	672 Alarm year	RO	unsigned short	2016 - 2250	Year	
			673 Alarm month-day	RO	unsigned short	01.01 - 12.31	Month and day	0x020C => Feb12
			674 Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes	0x0805 => 8:05
			675 Alarm seconds	RO	unsigned char	0 - 59	Seconds	
			676 Alarm code	RO	unsigned char	1 - 127 F alarms, 129 - 255 W alarms		0x02 => 2F (MSb = 0), 0x82 => 2W (MSb = 1)
		Alarm 14	677 Alarm year	RO	unsigned short	2016 - 2250	Year	
			678 Alarm month-day	RO	unsigned short	01.01 - 12.31	Month and day	0x020C => Feb12
			679 Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes	0x0805 => 8:05
			680 Alarm seconds	RO	unsigned char	0 - 59	Seconds	
			681 Alarm code	RO	unsigned char	1 - 127 F alarms, 129 - 255 W alarms		0x02 => 2F (MSb = 0), 0x82 => 2W (MSb = 1)
		Alarm 15	682 Alarm year	RO	unsigned short	2016 - 2250	Year	
			683 Alarm month-day	RO	unsigned short	01.01 - 12.31	Month and day	0x020C => Feb12
			684 Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes	0x0805 => 8:05
			685 Alarm seconds	RO	unsigned char	0 - 59	Seconds	
			686 Alarm code	RO	unsigned char	1 - 127 F alarms, 129 - 255 W alarms		0x02 => 2F (MSb = 0), 0x82 => 2W (MSb = 1)
		Alarm 16	687 Alarm year	RO	unsigned short	2016 - 2250	Year	
			688 Alarm month-day	RO	unsigned short	01.01 - 12.31	Month and day	0x020C => Feb12
			689 Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes	0x0805 => 8:05
			690 Alarm seconds	RO	unsigned char	0 - 59	Seconds	
			691 Alarm code	RO	unsigned char	1 - 127 F alarms, 129 - 255 W alarms		0x02 => 2F (MSb = 0), 0x82 => 2W (MSb = 1)

Group	Subgroups	Register number	Register name	Data			Values and Units	Examples and comments
				Access	Type	Range		
Alarms	Alarms history	Alarm 17	692 Alarm year	RO	unsigned short	2016 - 2250	Year	
			693 Alarm month-day	RO	unsigned short	01.01 - 12.31	Month and day	0x020C => Feb12
			694 Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes	0x0805 => 8:05
			695 Alarm seconds	RO	unsigned char	0 - 59	Seconds	
		696 Alarm code	RO	unsigned char	1 - 127 F alarms, 129 - 255 W alarms			0x02 => 2F (MSb = 0), 0x82 => 2W (MSb = 1)
		Alarm 18	697 Alarm year	RO	unsigned short	2016 - 2250	Year	
			698 Alarm month-day	RO	unsigned short	01.01 - 12.31	Month and day	0x020C => Feb12
			699 Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes	0x0805 => 8:05
			700 Alarm seconds	RO	unsigned char	0 - 59	Seconds	
		701 Alarm code	RO	unsigned char	1 - 127 F alarms, 129 - 255 W alarms			0x02 => 2F (MSb = 0), 0x82 => 2W (MSb = 1)
		Alarm 19	702 Alarm year	RO	unsigned short	2016 - 2250	Year	
			703 Alarm month-day	RO	unsigned short	01.01 - 12.31	Month and day	0x020C => Feb12
			704 Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes	0x0805 => 8:05
			705 Alarm seconds	RO	unsigned char	0 - 59	Seconds	
		706 Alarm code	RO	unsigned char	1 - 127 F alarms, 129 - 255 W alarms			0x02 => 2F (MSb = 0), 0x82 => 2W (MSb = 1)
		Alarm 20	707 Alarm year	RO	unsigned short	2016 - 2250	Year	
			708 Alarm month-day	RO	unsigned short	01.01 - 12.31	Month and day	0x020C => Feb12
			709 Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes	0x0805 => 8:05
			710 Alarm seconds	RO	unsigned char	0 - 59	Seconds	
		711 Alarm code	RO	unsigned char	1 - 127 F alarms, 129 - 255 W alarms			0x02 => 2F (MSb = 0), 0x82 => 2W (MSb = 1)
		Alarm 21	712 Alarm year	RO	unsigned short	2016 - 2250	Year	
			713 Alarm month-day	RO	unsigned short	01.01 - 12.31	Month and day	0x020C => Feb12
			714 Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes	0x0805 => 8:05
			715 Alarm seconds	RO	unsigned char	0 - 59	Seconds	
		716 Alarm code	RO	unsigned char	1 - 127 F alarms, 129 - 255 W alarms			0x02 => 2F (MSb = 0), 0x82 => 2W (MSb = 1)
		Alarm 22	717 Alarm year	RO	unsigned short	2016 - 2250	Year	
			718 Alarm month-day	RO	unsigned short	01.01 - 12.31	Month and day	0x020C => Feb12
			719 Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes	0x0805 => 8:05
			720 Alarm seconds	RO	unsigned char	0 - 59	Seconds	
		721 Alarm code	RO	unsigned char	1 - 127 F alarms, 129 - 255 W alarms			0x02 => 2F (MSb = 0), 0x82 => 2W (MSb = 1)
		Alarm 23	722 Alarm year	RO	unsigned short	2016 - 2250	Year	
			723 Alarm month-day	RO	unsigned short	01.01 - 12.31	Month and day	0x020C => Feb12
			724 Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes	0x0805 => 8:05
			725 Alarm seconds	RO	unsigned char	0 - 59	Seconds	
		726 Alarm code	RO	unsigned char	1 - 127 F alarms, 129 - 255 W alarms			0x02 => 2F (MSb = 0), 0x82 => 2W (MSb = 1)

Group	Subgroups	Register number	Register name	Data			Values and Units	Examples and comments
				Access	Type	Range		
Alarms	Alarms history	Alarm 24	727 Alarm year	RO	unsigned short	2016 - 2250	Year	
			728 Alarm month-day	RO	unsigned short	01.01 - 12.31	Month and day	0x020C => Feb12
			729 Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes	0x0805 => 8:05
			730 Alarm seconds	RO	unsigned char	0 - 59	Seconds	
		Alarm 25	731 Alarm code	RO	unsigned char	1 - 127 F alarms, 129 - 255 W alarms		0x02 => 2F (MSb = 0), 0x82 => 2W (MSb = 1)
			732 Alarm year	RO	unsigned short	2016 - 2250	Year	
			733 Alarm month-day	RO	unsigned short	01.01 - 12.31	Month and day	0x020C => Feb12
			734 Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes	0x0805 => 8:05
			735 Alarm seconds	RO	unsigned char	0 - 59	Seconds	
		Alarm 26	736 Alarm code	RO	unsigned char	1 - 127 F alarms, 129 - 255 W alarms		0x02 => 2F (MSb = 0), 0x82 => 2W (MSb = 1)
			737 Alarm year	RO	unsigned short	2016 - 2250	Year	
			738 Alarm month-day	RO	unsigned short	01.01 - 12.31	Month and day	0x020C => Feb12
			739 Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes	0x0805 => 8:05
			740 Alarm seconds	RO	unsigned char	0 - 59	Seconds	
		Alarm 27	741 Alarm code	RO	unsigned char	1 - 127 F alarms, 129 - 255 W alarms		0x02 => 2F (MSb = 0), 0x82 => 2W (MSb = 1)
			742 Alarm year	RO	unsigned short	2016 - 2250	Year	
			743 Alarm month-day	RO	unsigned short	01.01 - 12.31	Month and day	0x020C => Feb12
			744 Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes	0x0805 => 8:05
			745 Alarm seconds	RO	unsigned char	0 - 59	Seconds	
		Alarm 28	746 Alarm code	RO	unsigned char	1 - 127 F alarms, 129 - 255 W alarms		0x02 => 2F (MSb = 0), 0x82 => 2W (MSb = 1)
			747 Alarm year	RO	unsigned short	2016 - 2250	Year	
			748 Alarm month-day	RO	unsigned short	01.01 - 12.31	Month and day	0x020C => Feb12
			749 Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes	0x0805 => 8:05
			750 Alarm seconds	RO	unsigned char	0 - 59	Seconds	
		Alarm 29	751 Alarm code	RO	unsigned char	1 - 127 F alarms, 129 - 255 W alarms		0x02 => 2F (MSb = 0), 0x82 => 2W (MSb = 1)
			752 Alarm year	RO	unsigned short	2016 - 2250	Year	
			753 Alarm month-day	RO	unsigned short	01.01 - 12.31	Month and day	0x020C => Feb12
			754 Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes	0x0805 => 8:05
			755 Alarm seconds	RO	unsigned char	0 - 59	Seconds	
		Alarm 30	756 Alarm code	RO	unsigned char	1 - 127 F alarms, 129 - 255 W alarms		0x02 => 2F (MSb = 0), 0x82 => 2W (MSb = 1)
			757 Alarm year	RO	unsigned short	2016 - 2250	Year	
			758 Alarm month-day	RO	unsigned short	01.01 - 12.31	Month and day	0x020C => Feb12
			759 Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes	0x0805 => 8:05
			760 Alarm seconds	RO	unsigned char	0 - 59	Seconds	
		Alarm 31	761 Alarm code	RO	unsigned char	1 - 127 F alarms, 129 - 255 W alarms		0x02 => 2F (MSb = 0), 0x82 => 2W (MSb = 1)
			762 Alarm year	RO	unsigned short	2016 - 2250	Year	
			763 Alarm month-day	RO	unsigned short	01.01 - 12.31	Month and day	0x020C => Feb12
			764 Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes	0x0805 => 8:05

Group	Subgroups	Register number	Register name	Data			Values and Units	Examples and comments
				Access	Type	Range		
Alarms	Alarms history	Alarm 31	762 Alarm year	RO	unsigned short	2016 - 2250	Year	
			763 Alarm month-day	RO	unsigned short	01.01 - 12.31	Month and day	0x020C => Feb12
			764 Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes	0x0805 => 8:05
			765 Alarm seconds	RO	unsigned char	0 - 59	Seconds	
		Alarm 32	766 Alarm code	RO	unsigned char	1 - 127 F alarms, 129 - 255 W alarms		0x02 => 2F (MSb = 0), 0x82 => 2W (MSb = 1)
			767 Alarm year	RO	unsigned short	2016 - 2250	Year	
			768 Alarm month-day	RO	unsigned short	01.01 - 12.31	Month and day	0x020C => Feb12
			769 Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes	0x0805 => 8:05
			770 Alarm seconds	RO	unsigned char	0 - 59	Seconds	
		Alarm 33	771 Alarm code	RO	unsigned char	1 - 127 F alarms, 129 - 255 W alarms		0x02 => 2F (MSb = 0), 0x82 => 2W (MSb = 1)
			772 Alarm year	RO	unsigned short	2016 - 2250	Year	
			773 Alarm month-day	RO	unsigned short	01.01 - 12.31	Month and day	0x020C => Feb12
			774 Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes	0x0805 => 8:05
			775 Alarm seconds	RO	unsigned char	0 - 59	Seconds	
		Alarm 34	776 Alarm code	RO	unsigned char	1 - 127 F alarms, 129 - 255 W alarms		0x02 => 2F (MSb = 0), 0x82 => 2W (MSb = 1)
			777 Alarm year	RO	unsigned short	2016 - 2250	Year	
			778 Alarm month-day	RO	unsigned short	01.01 - 12.31	Month and day	0x020C => Feb12
			779 Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes	0x0805 => 8:05
			780 Alarm seconds	RO	unsigned char	0 - 59	Seconds	
		Alarm 35	781 Alarm code	RO	unsigned char	1 - 127 F alarms, 129 - 255 W alarms		0x02 => 2F (MSb = 0), 0x82 => 2W (MSb = 1)
			782 Alarm year	RO	unsigned short	2016 - 2250	Year	
			783 Alarm month-day	RO	unsigned short	01.01 - 12.31	Month and day	0x020C => Feb12
			784 Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes	0x0805 => 8:05
			785 Alarm seconds	RO	unsigned char	0 - 59	Seconds	
		Alarm 36	786 Alarm code	RO	unsigned char	1 - 127 F alarms, 129 - 255 W alarms		0x02 => 2F (MSb = 0), 0x82 => 2W (MSb = 1)
			787 Alarm year	RO	unsigned short	2016 - 2250	Year	
			788 Alarm month-day	RO	unsigned short	01.01 - 12.31	Month and day	0x020C => Feb12
			789 Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes	0x0805 => 8:05
			790 Alarm seconds	RO	unsigned char	0 - 59	Seconds	
		Alarm 37	791 Alarm code	RO	unsigned char	1 - 127 F alarms, 129 - 255 W alarms		0x02 => 2F (MSb = 0), 0x82 => 2W (MSb = 1)
			792 Alarm year	RO	unsigned short	2016 - 2250	Year	
			793 Alarm month-day	RO	unsigned short	01.01 - 12.31	Month and day	0x020C => Feb12
			794 Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes	0x0805 => 8:05
			795 Alarm seconds	RO	unsigned char	0 - 59	Seconds	
		Alarm 37	796 Alarm code	RO	unsigned char	1 - 127 F alarms, 129 - 255 W alarms		0x02 => 2F (MSb = 0), 0x82 => 2W (MSb = 1)

Group	Subgroups	Register number	Register name	Data			Values and Units	Examples and comments
				Access	Type	Range		
Alarms	Alarms history	Alarm 38	797 Alarm year	RO	unsigned short	2016 - 2250	Year	
			798 Alarm month-day	RO	unsigned short	01.01 - 12.31	Month and day	0x020C => Feb12
			799 Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes	0x0805 => 8:05
			800 Alarm seconds	RO	unsigned char	0 - 59	Seconds	
		Alarm 39	801 Alarm code	RO	unsigned char	1 - 127 F alarms, 129 - 255 W alarms		0x02 => 2F (MSb = 0), 0x82 => 2W (MSb = 1)
			802 Alarm year	RO	unsigned short	2016 - 2250	Year	
			803 Alarm month-day	RO	unsigned short	01.01 - 12.31	Month and day	0x020C => Feb12
			804 Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes	0x0805 => 8:05
			805 Alarm seconds	RO	unsigned char	0 - 59	Seconds	
		Alarm 40	806 Alarm code	RO	unsigned char	1 - 127 F alarms, 129 - 255 W alarms		0x02 => 2F (MSb = 0), 0x82 => 2W (MSb = 1)
			807 Alarm year	RO	unsigned short	2016 - 2250	Year	
			808 Alarm month-day	RO	unsigned short	01.01 - 12.31	Month and day	0x020C => Feb12
			809 Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes	0x0805 => 8:05
			810 Alarm seconds	RO	unsigned char	0 - 59	Seconds	
		Alarm 41	811 Alarm code	RO	unsigned char	1 - 127 F alarms, 129 - 255 W alarms		0x02 => 2F (MSb = 0), 0x82 => 2W (MSb = 1)
			812 Alarm year	RO	unsigned short	2016 - 2250	Year	
			813 Alarm month-day	RO	unsigned short	01.01 - 12.31	Month and day	0x020C => Feb12
			814 Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes	0x0805 => 8:05
			815 Alarm seconds	RO	unsigned char	0 - 59	Seconds	
		Alarm 42	816 Alarm code	RO	unsigned char	1 - 127 F alarms, 129 - 255 W alarms		0x02 => 2F (MSb = 0), 0x82 => 2W (MSb = 1)
			817 Alarm year	RO	unsigned short	2016 - 2250	Year	
			818 Alarm month-day	RO	unsigned short	01.01 - 12.31	Month and day	0x020C => Feb12
			819 Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes	0x0805 => 8:05
			820 Alarm seconds	RO	unsigned char	0 - 59	Seconds	
		Alarm 43	821 Alarm code	RO	unsigned char	1 - 127 F alarms, 129 - 255 W alarms		0x02 => 2F (MSb = 0), 0x82 => 2W (MSb = 1)
			822 Alarm year	RO	unsigned short	2016 - 2250	Year	
			823 Alarm month-day	RO	unsigned short	01.01 - 12.31	Month and day	0x020C => Feb12
			824 Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes	0x0805 => 8:05
			825 Alarm seconds	RO	unsigned char	0 - 59	Seconds	
		Alarm 44	826 Alarm code	RO	unsigned char	1 - 127 F alarms, 129 - 255 W alarms		0x02 => 2F (MSb = 0), 0x82 => 2W (MSb = 1)
			827 Alarm year	RO	unsigned short	2016 - 2250	Year	
			828 Alarm month-day	RO	unsigned short	01.01 - 12.31	Month and day	0x020C => Feb12
			829 Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes	0x0805 => 8:05
			830 Alarm seconds	RO	unsigned char	0 - 59	Seconds	
		Alarm 44	831 Alarm code	RO	unsigned char	1 - 127 F alarms, 129 - 255 W alarms		0x02 => 2F (MSb = 0), 0x82 => 2W (MSb = 1)

Group	Subgroups	Register number	Register name	Data			Values and Units	Examples and comments
				Access	Type	Range		
Alarms	Alarms history	Alarm 45	832 Alarm year	RO	unsigned short	2016 - 2250	Year	
			833 Alarm month-day	RO	unsigned short	01.01 - 12.31	Month and day	0x020C => Feb12
			834 Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes	0x0805 => 8:05
			835 Alarm seconds	RO	unsigned char	0 - 59	Seconds	
		Alarm 46	836 Alarm code	RO	unsigned char	1 - 127 F alarms, 129 - 255 W alarms		0x02 => 2F (MSb = 0), 0x82 => 2W (MSb = 1)
			837 Alarm year	RO	unsigned short	2016 - 2250	Year	
			838 Alarm month-day	RO	unsigned short	01.01 - 12.31	Month and day	0x020C => Feb12
			839 Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes	0x0805 => 8:05
			840 Alarm seconds	RO	unsigned char	0 - 59	Seconds	
		Alarm 47	841 Alarm code	RO	unsigned char	1 - 127 F alarms, 129 - 255 W alarms		0x02 => 2F (MSb = 0), 0x82 => 2W (MSb = 1)
			842 Alarm year	RO	unsigned short	2016 - 2250	Year	
			843 Alarm month-day	RO	unsigned short	01.01 - 12.31	Month and day	0x020C => Feb12
			844 Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes	0x0805 => 8:05
			845 Alarm seconds	RO	unsigned char	0 - 59	Seconds	
		Alarm 48	846 Alarm code	RO	unsigned char	1 - 127 F alarms, 129 - 255 W alarms		0x02 => 2F (MSb = 0), 0x82 => 2W (MSb = 1)
			847 Alarm year	RO	unsigned short	2016 - 2250	Year	
			848 Alarm month-day	RO	unsigned short	01.01 - 12.31	Month and day	0x020C => Feb12
			849 Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes	0x0805 => 8:05
			850 Alarm seconds	RO	unsigned char	0 - 59	Seconds	
		Alarm 49	851 Alarm code	RO	unsigned char	1 - 127 F alarms, 129 - 255 W alarms		0x02 => 2F (MSb = 0), 0x82 => 2W (MSb = 1)
			852 Alarm year	RO	unsigned short	2016 - 2250	Year	
			853 Alarm month-day	RO	unsigned short	01.01 - 12.31	Month and day	0x020C => Feb12
			854 Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes	0x0805 => 8:05
			855 Alarm seconds	RO	unsigned char	0 - 59	Seconds	
		Alarm 50	856 Alarm code	RO	unsigned char	1 - 127 F alarms, 129 - 255 W alarms		0x02 => 2F (MSb = 0), 0x82 => 2W (MSb = 1)
			857 Alarm year	RO	unsigned short	2016 - 2250	Year	
			858 Alarm month-day	RO	unsigned short	01.01 - 12.31	Month and day	0x020C => Feb12
			859 Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes	0x0805 => 8:05
			860 Alarm seconds	RO	unsigned char	0 - 59	Seconds	
		Alarm 50	861 Alarm code	RO	unsigned char	1 - 127 F alarms, 129 - 255 W alarms		0x02 => 2F (MSb = 0), 0x82 => 2W (MSb = 1)
			862 Alarm year	RO	unsigned short	2016 - 2250	Year	
			863 Alarm month-day	RO	unsigned short	01.01 - 12.31	Month and day	0x020C => Feb12
			864 Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes	0x0805 => 8:05
			865 Alarm seconds	RO	unsigned char	0 - 59	Seconds	
Monitoring	Detailed information	900	Status icon bit mask	RO	unsigned short	0 - 8191	Starting => 0 bit, Stoping => 1 bit, Fan => 2 bit, Rotor => 3 bit, Heating => 4 bit, Cooling => 5 bit, HeatingDenied => 6 bit, CoolingDenied => 7 bit, FlowDown => 8 bit, FreeHeating => 9 bit, FreeCooling => 10 bit, AlarmF => 11 bit, AlarmW => 12 bit	

Group	Subgroups	Register number	Register name	Data			Values and Units	Examples and comments
				Access	Type	Range		
Monitoring	Detailed information	901	Heating/cooling config	RO	unsigned char	0 - 7	Electric heater => 0 bit, Water cooler/heater => 1 bit, DX unit => 2 bit	
		902	Supply temperature	RO	signed short	-500 - 1200	x10 C	
		903	Extract Temperature	RO	signed short	-500 - 1200	x10 C	
		904	Outdoor temp	RO	signed short	-500 - 1200	x10 C	
		905	Water temperature	RO	signed short	-500 - 1200	x10 C	
		906-907	Current supply flow	RO	unsigned int	0 - 200000	m3/h, l/s	
		908-909	Current extract flow	RO	unsigned int	0 - 200000	m3/h, l/s	
		910	Current supply fan intensity	RO	unsigned short	0 - 1000	x10 %	
		911	Current extract fan intensity	RO	unsigned short	0 - 1000	x10 %	
		912	Heat exchanger	RO	unsigned short	0 - 1000	x10 %	
		913	Electric heater	RO	unsigned short	0 - 1000	x10 %	
		914	Water heater	RO	unsigned short	0 - 1000	x10 %	
		915	Water cooler	RO	unsigned short	0 - 1000	x10 %	
		916	DX unit	RO	signed short	-1000 - +1000	x10 %	
		917	Filters Impurity	RO	unsigned char	0 - 100	%	
		918	Air dampers	RO	unsigned char	0 - 100	%	
		919	Supply pressure	RO	unsigned short	0 - 1000	Pa	
		920	Extract pressure	RO	unsigned short	0 - 1000	Pa	
		952	Air quality or humidity (sensor 1 - B8)	RO	unsigned short	0 - 65535	ppm,%	
		953	Air quality or humidity (sensor 2 - B9)	RO	unsigned short	0 - 65535	ppm,%	
		955	Heat exchanger type	RO	unsigned char	0 - 1	Plate = 0, Rotary = 1	
		961	Exhaust temperature	RO	signed short	-500 - 1200	x10 C	
	Efficiency status	921	Power consumption	RO	unsigned short	0 - 65535	W	
		922	Heater power	RO	unsigned short	0 - 65535	W	
		923	Heat exchanger recovery	RO	unsigned short	0 - 65535	W	
		924	Heat exchanger efficiency	RO	unsigned char	0 - 100	%	
		925	Energy saving	RO	unsigned char	0 - 100	%	
		926	SPI	RO	unsigned short	0 - 65535	W/(m3/h)	
	Consumption	927-928	AHU consumption, Day	RO	unsigned int	0 - 4294967296	Wh	
		929-930	AHU consumption, Month	RO	unsigned int	0 - 4294967296	Wh	
		931-932	AHU consumption, Total	RO	unsigned int	0 - 4294967296	Wh	
		933-934	Add. air heater consumption, Day	RO	unsigned int	0 - 4294967296	Wh	
		935-936	Add. air heater consumption, Month	RO	unsigned int	0 - 4294967296	Wh	
		937-938	Add. air heater consumption, Total	RO	unsigned int	0 - 4294967296	Wh	
		939-940	Recovered energy, Day	RO	unsigned int	0 - 4294967296	Wh	
		941-942	Recovered energy, Month	RO	unsigned int	0 - 4294967296	Wh	
		943-944	Recovered energy, Total	RO	unsigned int	0 - 4294967296	Wh	
		945	SPI per day	RO	unsigned short	0 - 65535	W/(m3/h)	

Group	Subgroups	Register number	Register name	Data			Values and Units	Examples and comments
				Access	Type	Range		
Monitoring	Panel	946	Panel 1 temperature	RO	signed short	-500 - 1200	x10 C	
		947	Panel 1 humidity	RO	signed char	0 - 100	%	
		948	Panel 1 air quality	RO	unsigned short	0 - 65535	ppm, ppb	
		949	Panel 2 temperature	RO	signed short	-500 - 1200	x10 C	
		950	Panel 2 humidity	RO	signed char	0 - 100	%	
		951	Panel 2 air quality	RO	unsigned short	0 - 65535	ppm, ppb	
Others	DOUT	954	Connected panels	RO	unsigned char	0 - 3	None = 0, Panel(1) = 1, Panel(2) = 2, Panel(1) and Panel(2) = 3	
		958	Alarm	RO	unsigned char	0 - 1	Off = 0, On = 1	
		959	Heating	RO	unsigned char	0 - 1	Off = 0, On = 1	
		960	Cooling	RO	unsigned char	0 - 1	Off = 0, On = 1	
		1000-1001	Firmware version	RO	unsigned int	1 - 4294967295	1st number 8bit <<24, 2nd number 4bit <<20, 3rd number 8bit <<12, 4th number 12bit<<0	18886660 => 1.2.3.4
		1002-1003	Panel 1 firmware version	RO	unsigned int	1 - 4294967295	1st number 8bit <<24, 2nd number 4bit <<20, 3rd number 8bit <<12, 4th number 12bit<<0	18886660 => 1.2.3.4
		1004-1005	Panel 2 firmware version	RO	unsigned int	1 - 4294967295	1st number 8bit <<24, 2nd number 4bit <<20, 3rd number 8bit <<12, 4th number 12bit<<0	18886660 => 1.2.3.4
		1050	Reset settings	R/W	unsigned short	0 - 11	Reset Away settings = 1, Reset Normal settings = 2, Reset Intensive settings = 3, Reset Boost settings = 4, Reset Holidays settings = 5, Reset Override settings = 6, Reset Kitchen settings = 7, Reset Fireplace settings = 8, Reset Air quality settings = 9, Reset Eco settings = 10, Reset Advanced settings = 11	
		1051	Clean filters calibration	R/W	unsigned char	1	Confirm = 1	Resets filters counter, if filter clogging is more than 1%

Alarm codes (registers 600-861)

Code		Text	Message
Hex	Dec		
01	1	F1	Supply Flow Not Reached
02	2	F2	Exhaust Flow Not Reached
03	3	F3	Water Temp B5 To Low
04	4	F4	Low Supply Air Temperature
05	5	F5	High Supply Air Temperature
06	6	F6	Electric Heater Overheat
07	7	F7	Heat Exchanger Failure
08	8	F8	Heat Exchanger Icing
09	9	F9	Internal Fire
0A	10	F10	External Fire
0B	11	F11	Supply Air Temp B1 Short
0C	12	F12	Supply Air Temp B1 Not Connected
0D	13	F13	Extract Air Temp B2 Short
0E	14	F14	Extract Air Temp B2 Not Connected
0F	15	F15	Outdoor Air Temp B3 Short
10	16	F16	Outdoor Air Temp B3 Not Connected

Code		Text	Message
Hex	Dec		
11	17	F17	Exhaust Air Temp B4 Short
12	18	F18	Exhaust Air Temp B4 Not Connected
13	19	F19	Water Temp B5 Short
14	20	F20	Water Temp B5 Not Connected
15	21	F21	Supply Temp After Hx B10 Short
16	22	F22	Supply Temp After Hx B10 Not Connected
17	23	F23	Flash Fail
18	24	F24	Too Low 24V Supply Voltage
19	25	F25	Too High 24V Supply Voltage
1A	26	F26	24V Supply Voltage Overloaded
1C	28	F28	Room Temperature Sensor Fail
1D	29	F29	Room Humidity Sensor Fail
1E	30	F30	Humidity sensor failure
1F	31	F31	Impurity sensor failure
20	32	F32	Heat Exchanger Failure
21	33	F33	Heat Exchanger Failure
22	34	F34	Heat Exchanger Failure
23	35	F35	Heat Exchanger Failure
24	36	F36	Heat Exchanger Failure
25	37	F37	Heat Exchanger Failure
26	38	F38	Air flow sensor failure
27	39	F39	Air flow sensor failure
28	40	F40	Communication error
29	41	F41	Fire dampers failure
2A	42	F42	Fire damper failure
2B	43	F43	Fire damper failure
2C	44	F44	Fire damper failure
2D	45	F45	Fire damper failure
2E	46	F46	External fire alarm
2F	47	F47	External fire alarm
30	48	F48	External fire alarm
31	49	F49	External fire alarm
32	50	F50	External fire alarm
33	51	F51	Electric heater failure
34	52	F52	Electric preheater failure
81	129	W1	Change Air Filter
82	130	W2	Service Mode
83	131	W3	Water Temp B5 To Low (Warning)
84	132	W4	Humidity sensor failure
85	133	W5	Impurity sensor failure
86	134	W6	Low heat exchanger efficiency

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