

komfovent®

Description of C8 controller Modbus

This manual is compatible with C8 controller firmware version x.x.x.4 and above (X – does not matter).

C8 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.

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

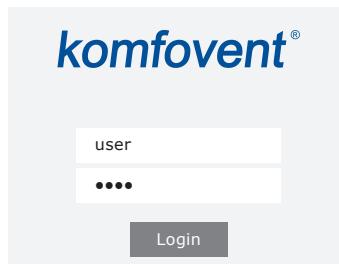
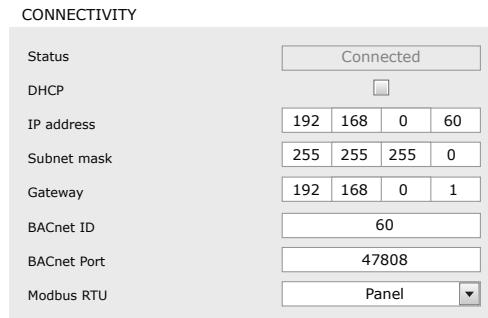


Fig. 1. Website login window

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).

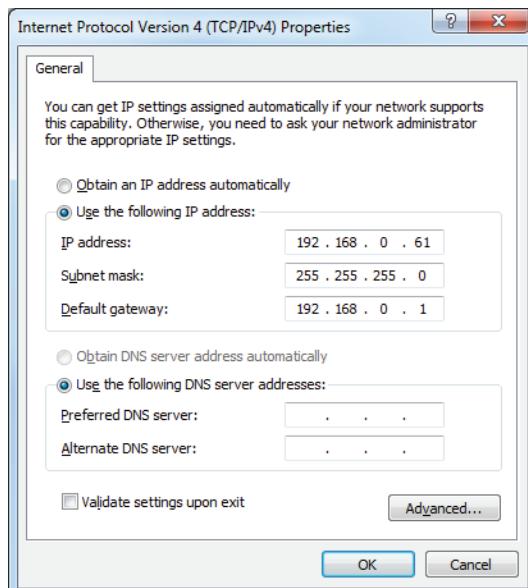
**Fig. 2.** Connectivity settings

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

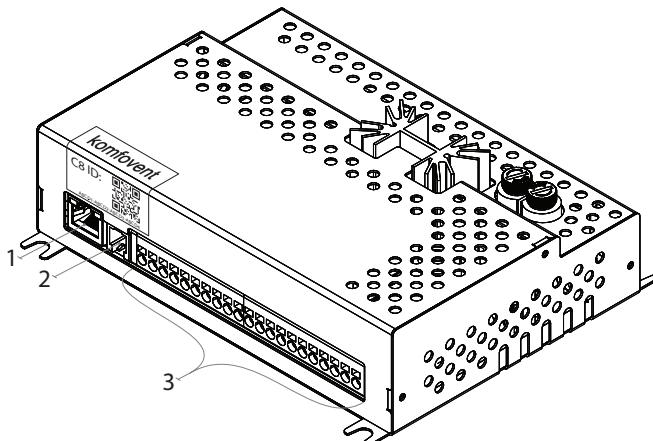
- your device and air handling unit are connected in the same network;
- your device and air handling unit are in the same subnet;
- your proxy server and firewall isn't blocking connection;
- you typed correct IP address.

If your device is connected directly to C8 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). To connect devices use twisted pair cable. Maximum cable length is 150 m. C8 controller ground point (any GND terminal from connection too external elements – 4, 7, 10, 12) and other device should be connected together, if distance between the RS-485 interfaces is more than 10 m. (Fig. 4, Fig. 5).



1. Ethernet connection of computer network or Internet
2. Controller panel connection
3. Connection of external elements

Fig. 4. Controller with the connection terminals

1	A	Modbus RTU			RS485
2	B				
3	+24V	Air quality sensor / Humidity sensor			B8
4	GND				
5	0..10V				
6	+24V	Water mixing valve actuator / DX control			AOUT
7	GND	Frost protection			
8	0..10V				
9	NTC	Supply air temperature sensor			B1
10	GND				
11	NTC	Return water temperature sensor			B5
12	GND				
13	C	General			DIN
14	NC	Fire alarm			
15	NO	Priority			
16	C	General			DOUT
17	NO	Heating			
18	NO	Cooling			
19	Q	Air damper actuators Max 15W			FG1
20	-230V				
21	N				

Fig. 5. Connection diagram for external elements

Modbus TCP protocol works via Ethernet interface, connection is provided to RJ-45 socket on the C8 controller (Fig. 4). Default IP address is 192.168.0.60, and port is 502. To connect C8 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. 6). If you want to change one of these parameters, just click on it and edit.

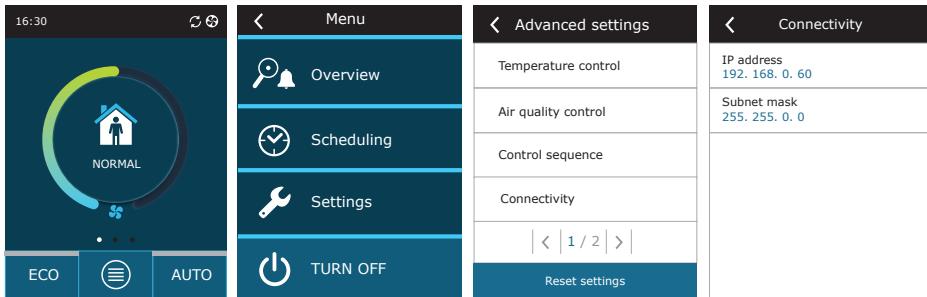


Fig. 6. C6.1 touch panel connectivity settings

For connection the CAT5 category cable should be used. The maximum cable length between device and controller C8 is 100 m.

C8 controller Modbus registers with descriptions are presented in Table 3.

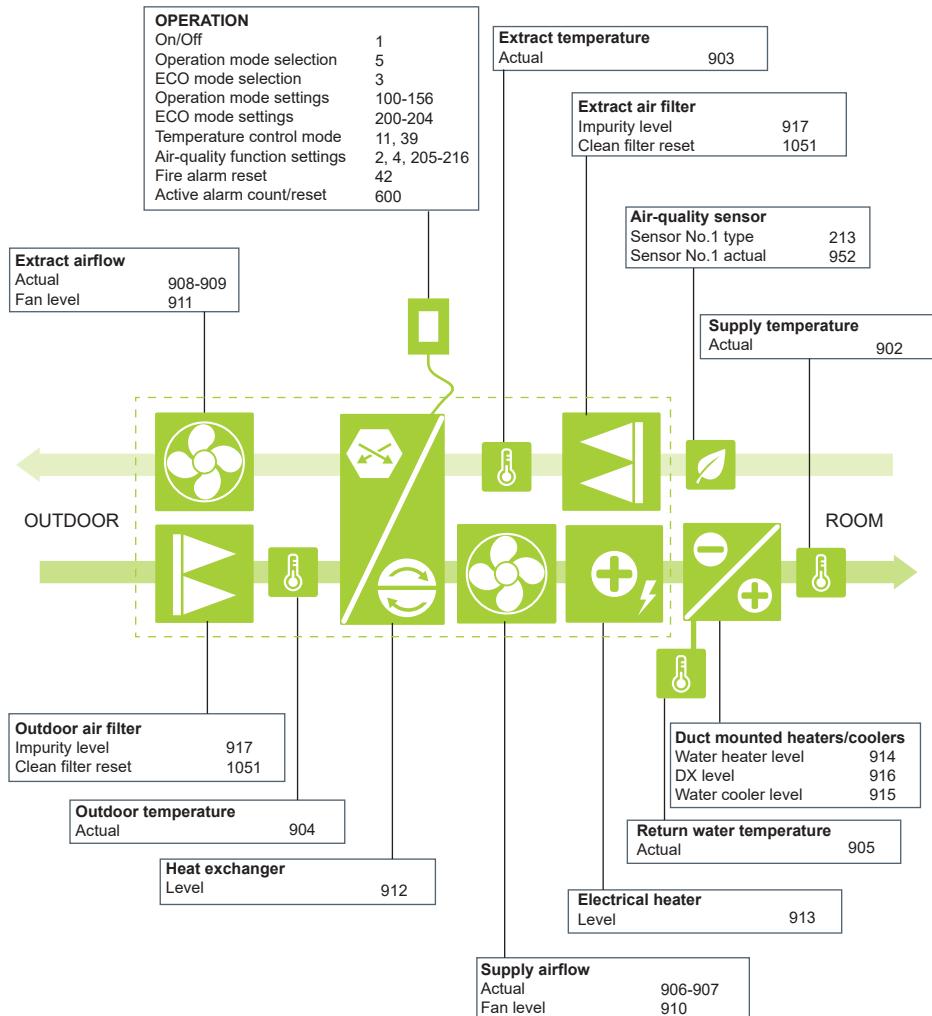


Table 3

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 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	

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 ,	
		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
		43	Allow dehumidify with Dx	R/W	unsigned char	0-1	Off = 0, On = 1,	
	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	
Time and date	Settings	38	BACnet ID	R/W	unsigned int	0 - 4194303	default 60	
		44	Bacnet Port	R/W	unsigned short	1-65535	default 47808	
		27	Language	R/W	unsigned char	0-255	English = 0, Lithuanian = 1, Russian = 2, ...	
		42	Fire alarm restart	R/W	unsigned char	0 - 1	Manual = 0, Auto = 1	
		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
	Time and date	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 - 205122400	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	%	
		102-103	Extract flow	R/W	unsigned int	0 - 200000	%	
		104	Setpoint	R/W	signed short	50 - 400	x10 C	
		105	Heating	R/W	unsigned char	0 - 1	Off = 0, On = 1	
		159	Humidity setpoint	R/W	unsigned char	RH: 10-90	%	
	Normal	106-107	Supply flow	R/W	unsigned int	0 - 200000	%	
		108-109	Extract flow	R/W	unsigned int	0 - 200000	%	
		110	Setpoint	R/W	signed short	50 - 400	x10 C	
		111	Heating	R/W	unsigned char	0 - 1	Off = 0, On = 1	
		160	Humidity setpoint	R/W	unsigned char	RH: 10-90	%	
	Intensive	112-113	Supply flow	R/W	unsigned int	0 - 200000	%	
		114-115	Extract flow	R/W	unsigned int	0 - 200000	%	
		116	Setpoint	R/W	signed short	50 - 400	x10 C	
		117	Heating	R/W	unsigned char	0 - 1	Off = 0, On = 1	
		161	Humidity setpoint	R/W	unsigned char	RH: 10-90	%	

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	%	
		120-121	Extract flow	R/W	unsigned int	0 - 200000	%	
		122	Setpoint	R/W	signed short	50 - 400	x10 C	
		123	Heating	R/W	unsigned char	0 - 1	Off = 0, On = 1	
		162	Humidity setpoint	R/W	unsigned char	RH: 10-90	%	
	Kitchen	124-125	Supply flow	R/W	unsigned int	0 - 200000	%	
		126-127	Extract flow	R/W	unsigned int	0 - 200000	%	
		128	Setpoint	R/W	signed short	50 - 400	x10 C	
		129	Heating	R/W	unsigned char	0 - 1	Off = 0, On = 1	
		130	Timer time	R/W	unsigned short	0 - 300	Minutes	
	Fireplace	131-132	Supply flow	R/W	unsigned int	0 - 200000	%	
		133-134	Extract flow	R/W	unsigned int	0 - 200000	%	
		135	Setpoint	R/W	signed short	50 - 400	x10 C	
		136	Heating	R/W	unsigned char	0 - 1	Off = 0, On = 1	
		137	Timer time	R/W	unsigned short	0 - 300	Minutes	
	Override	138-139	Supply flow	R/W	unsigned int	0 - 200000	%	
		140-141	Extract flow	R/W	unsigned int	0 - 200000	%	
		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	
		157	Delayed start	R/W	unsigned char	0 - 10	Minutes	
		158	Delayed stop	R/W	unsigned char	0 - 30	Minutes	
	Holidays	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		
		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	
Eco	Eco	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	Constant heat recovery	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		
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 intensity	R/W	unsigned char	0, 20 - 100	%	
		210	Air quality maximum intensity	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	
		215	Humidity control	R/W	unsigned char	0-1	Disabled = 0, Enabled = 1	
		216	Outdoor humidity	R/W	unsigned char	0-2	None = 0, Sensor = 1	
Scheduler	Station at home	Weekday mask	Event 1	300	Weekday mask	R/W	unsigned char	Mo => 0 bit, Tu => 1 bit, We => 2 bit, Th => 3 bit, Fr => 4 bit, Sa => 5 bit, Su => 6 bit
		Operation program 1	Event 2	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
				303	Stop time	R/W	unsigned short	0:00 - 23:59 MSB - hours, LSB - minutes
		Event 3	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
				306	Stop time	R/W	unsigned short	0:00 - 23:59 MSB - hours, LSB - minutes
		Event 4	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
				309	Stop time	R/W	unsigned short	0:00 - 23:59 MSB - hours, LSB - minutes
		Event 5	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
				312	Stop time	R/W	unsigned short	0:00 - 23:59 MSB - hours, LSB - minutes
				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
				315	Stop time	R/W	unsigned short	0:00 - 23:59 MSB - hours, LSB - minutes

Group	Subgroups	Register number	Register name	Data			Values and Units	Examples and comments
				Access	Type	Range		
Scheduler	Stay at home	Weekday mask	Event 1	316	Weekday mask	R/W	unsigned char	0b00000000-0b0111111 Mo => 0 bit, Tu => 1 bit, We => 2 bit, Th => 3 bit, Fr => 4 bit, Sa => 5 bit, Su => 6 bit
				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
				319	Stop time	R/W	unsigned short	0:00 - 23:59 MSB - hours, LSB - minutes
				320	Mode	R/W	unsigned char	0 - 4 Standby = 0, Away = 1, Normal =2, Intensive =3, Boost = 4
		Operation program 2	Event 2	321	Start time	R/W	unsigned short	0:00 - 23:59 MSB - hours, LSB - minutes
				322	Stop time	R/W	unsigned short	0:00 - 23:59 MSB - hours, LSB - minutes
				323	Mode	R/W	unsigned char	0 - 4 Standby = 0, Away = 1, Normal =2, Intensive =3, Boost = 4
			Event 3	324	Start time	R/W	unsigned short	0:00 - 23:59 MSB - hours, LSB - minutes
				325	Stop time	R/W	unsigned short	0:00 - 23:59 MSB - hours, LSB - minutes
		Operation program 3	Event 4	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
				328	Stop time	R/W	unsigned short	0:00 - 23:59 MSB - hours, LSB - minutes
			Event 5	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
				331	Stop time	R/W	unsigned short	0:00 - 23:59 MSB - hours, LSB - minutes
		Weekday mask	Event 1	332	Weekday mask	R/W	unsigned char	0b00000000-0b0111111 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
				335	Stop time	R/W	unsigned short	0:00 - 23:59 MSB - hours, LSB - minutes
			Event 2	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
				338	Stop time	R/W	unsigned short	0:00 - 23:59 MSB - hours, LSB - minutes

Group	Subgroups	Register number	Register name	Data			Values and Units	Examples and comments	
				Access	Type	Range			
Scheduler	Stay at home	Operation program 3	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	
				341	Stop time	R/W unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	
			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	
			Event 5	344	Stop time	R/W unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	
				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	
		Operation program 4	Event 1	347	Stop time	R/W unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	
				348	Weekday mask	R/W unsigned char	0b00000000-0b0111111	Mo => 0 bit, Tu => 1 bit, We => 2 bit, Th => 3 bit, Fr => 4 bit, Sa => 5 bit, Su => 6 bit	
				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	
				351	Stop time	R/W unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	
			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	
				354	Stop time	R/W unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	
				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	
			Event 3	357	Stop time	R/W unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	
				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	
				360	Stop time	R/W unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	
				361	Mode	R/W unsigned char	0 - 4	Standby = 0, Away = 1, Normal =2, Intensive =3, Boost = 4	
		Event 4		362	Start time	R/W unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	
				363	Stop time	R/W unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	

Group	Subgroups	Register number	Register name	Data			Values and Units	Examples and comments
				Access	Type	Range		
Scheduler	Working week	Weekday mask	Operation program 1	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
				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
				367	Stop time	R/W unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes
				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
				370	Stop time	R/W unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes
				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
				373	Stop time	R/W unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes
Scheduler	Working week	Weekday mask	Operation program 2	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
				376	Stop time	R/W unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes
				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
				379	Stop time	R/W unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes
				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
				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
				383	Stop time	R/W unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes
Scheduler	Working week	Weekday mask	Operation program 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
				386	Stop time	R/W unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes

Group	Subgroups	Register number	Register name	Data			Values and Units	Examples and comments
				Access	Type	Range		
Scheduler	Operation program 2	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
			389	Stop time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes
		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
		Event 5	392	Stop time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes
			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
			395	Stop time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes
	Working week	Weekday mask	396	Weekday mask	R/W	unsigned char	0b00000000-0b0111111	Mo => 0 bit, Tu => 1 bit, We => 2 bit, Th => 3 bit, Fr => 4 bit, Sa => 5 bit, Su => 6 bit
			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
			399	Stop time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes
		Operation program 3	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
			402	Stop time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes
			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
		Event 4	405	Stop time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes
			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
			408	Stop time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes
			409	Mode	R/W	unsigned char	0 - 4	Standby = 0, Away = 1, Normal =2, Intensive =3, Boost = 4
		Event 5	410	Start time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes
			411	Stop time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes

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
			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
			416	Mode	R/W	unsigned char	0 - 4	Standby = 0, Away = 1, Normal =2, Intensive =3, Boost = 4
		Event 2	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
			419	Mode	R/W	unsigned char	0 - 4	Standby = 0, Away = 1, Normal =2, Intensive =3, Boost = 4
		Event 3	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
			422	Mode	R/W	unsigned char	0 - 4	Standby = 0, Away = 1, Normal =2, Intensive =3, Boost = 4
Office	Operation program 1	Weekday mask	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
			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
		Event 2	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
			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
			432	Mode	R/W	unsigned char	0 - 4	Standby = 0, Away = 1, Normal =2, Intensive =3, Boost = 4
		Event 1	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	Operation program 1	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	
			437	Stop time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	
		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	
		Event 5	440	Stop time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	
			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	
			443	Stop time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	
	Office	Operation program 2	Event 1	444	Weekday mask	R/W	unsigned char	0b00000000-0b0111111	Mo => 0 bit, Tu => 1 bit, We => 2 bit, Th => 3 bit, Fr => 4 bit, Sa => 5 bit, Su => 6 bit
				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	
			447	Stop time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	
			448	Mode	R/W	unsigned char	0 - 4	Standby = 0, Away = 1, Normal =2, Intensive =3, Boost = 4	
		Event 3	449	Start time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	
			450	Stop time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	
			451	Mode	R/W	unsigned char	0 - 4	Standby = 0, Away = 1, Normal =2, Intensive =3, Boost = 4	
		Event 4	452	Start time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	
			453	Stop time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	
		Event 5	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	
			456	Stop time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	
			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	
			459	Stop time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	

Group	Subgroups	Register number	Register name	Data			Values and Units	Examples and comments
				Access	Type	Range		
Scheduler	Office	Weekday mask	Operation program 3	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
				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
				463	Stop time	R/W unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes
				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
				466	Stop time	R/W unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes
				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
				469	Stop time	R/W unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes
Scheduler	Office	Weekday mask	Operation program 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
				472	Stop time	R/W unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes
				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
				475	Stop time	R/W unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes
				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
				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
				479	Stop time	R/W unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes
Scheduler	Office	Weekday mask	Operation program 4	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
				482	Stop time	R/W unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes

Group	Subgroups	Register number	Register name	Data			Values and Units	Examples and comments
				Access	Type	Range		
Scheduler	Office	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
			485	Stop time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes
		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
		Event 5	488	Stop time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes
			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
			491	Stop time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes
			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
Custom	Operation program 1	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
			495	Stop time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes
		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
		Event 3	498	Stop time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes
			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
			501	Stop time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes
			502	Mode	R/W	unsigned char	0 - 4	Standby = 0, Away = 1, Normal =2, Intensive =3, Boost = 4
	Operation program 2	Event 4	503	Start time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes
			504	Stop time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes
		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
			507	Stop time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes

Group	Subgroups	Register number	Register name	Data			Values and Units	Examples and comments
				Access	Type	Range		
Scheduler	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
			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
			511	Stop time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes
			512	Mode	R/W	unsigned char	0 - 4	Standby = 0, Away = 1, Normal =2, Intensive =3, Boost = 4
		Event 2	513	Start time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes
			514	Stop time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes
			515	Mode	R/W	unsigned char	0 - 4	Standby = 0, Away = 1, Normal =2, Intensive =3, Boost = 4
	Operation program 3	Weekday mask	516	Start time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes
			517	Stop time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes
			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
			520	Stop time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes
Custom	Event 4	Weekday mask	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
			523	Stop time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes
			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
			525	Mode	R/W	unsigned char	0 - 4	Standby = 0, Away = 1, Normal =2, Intensive =3, Boost = 4
	Event 2	Weekday mask	526	Start time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes
			527	Stop time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes
			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
			530	Stop time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes

Group	Subgroups	Register number	Register name	Data			Values and Units	Examples and comments
				Access	Type	Range		
Scheduler	Operation program 3	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
			533	Stop time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes
		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
		Event 5	536	Stop time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes
			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
			539	Stop time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes
	Custom	Operation program 4	Event 1	540	Weekday mask	R/W	unsigned char	0b00000000-0b0111111
				541	Mode	R/W	unsigned char	0 - 4
				542	Start time	R/W	unsigned short	0:00 - 23:59
				543	Stop time	R/W	unsigned short	0:00 - 23:59
			Event 2	544	Mode	R/W	unsigned char	0 - 4
				545	Start time	R/W	unsigned short	0:00 - 23:59
			Event 3	546	Stop time	R/W	unsigned short	0:00 - 23:59
				547	Mode	R/W	unsigned char	0 - 4
				548	Start time	R/W	unsigned short	0:00 - 23:59
		Event 4		549	Stop time	R/W	unsigned short	0:00 - 23:59
		Event 5	550	Mode	R/W	unsigned char	0 - 4	
			551	Start time	R/W	unsigned short	0:00 - 23:59	
			552	Stop time	R/W	unsigned short	0:00 - 23:59	
			553	Mode	R/W	unsigned char	0 - 4	
			554	Start time	R/W	unsigned short	0:00 - 23:59	
			555	Stop time	R/W	unsigned short	0:00 - 23:59	

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	1 - 127 F alarms, 129 - 255 W alarms		0x02 => 2F (MSb = 0), 0x82 => 2W (MSb = 1)
		602	Active alarm 2 code	RO	unsigned char	1 - 127 F alarms, 129 - 255 W alarms		0x02 => 2F (MSb = 0), 0x82 => 2W (MSb = 1)
		603	Active alarm 3 code	RO	unsigned char	1 - 127 F alarms, 129 - 255 W alarms		0x02 => 2F (MSb = 0), 0x82 => 2W (MSb = 1)
		604	Active alarm 4 code	RO	unsigned char	1 - 127 F alarms, 129 - 255 W alarms		0x02 => 2F (MSb = 0), 0x82 => 2W (MSb = 1)
		605	Active alarm 5 code	RO	unsigned char	1 - 127 F alarms, 129 - 255 W alarms		0x02 => 2F (MSb = 0), 0x82 => 2W (MSb = 1)
		606	Active alarm 6 code	RO	unsigned char	1 - 127 F alarms, 129 - 255 W alarms		0x02 => 2F (MSb = 0), 0x82 => 2W (MSb = 1)
		607	Active alarm 7 code	RO	unsigned char	1 - 127 F alarms, 129 - 255 W alarms		0x02 => 2F (MSb = 0), 0x82 => 2W (MSb = 1)
		608	Active alarm 8 code	RO	unsigned char	1 - 127 F alarms, 129 - 255 W alarms		0x02 => 2F (MSb = 0), 0x82 => 2W (MSb = 1)
		609	Active alarm 9 code	RO	unsigned char	1 - 127 F alarms, 129 - 255 W alarms		0x02 => 2F (MSb = 0), 0x82 => 2W (MSb = 1)
Alarms history	Alarm 1	610	Active alarm 10 code	RO	unsigned char	1 - 127 F alarms, 129 - 255 W alarms		0x02 => 2F (MSb = 0), 0x82 => 2W (MSb = 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	0x020C => Feb12
		614	Alarm (newest) time	RO	unsigned short	0:00 - 23:59	Hours and minutes	0x0805 => 8:05
		615	Alarm (newest) seconds	RO	unsigned char	0 - 59	Seconds	
		616	Alarm (newest) code	RO	unsigned char	1 - 127 F alarms, 129 - 255 W alarms		0x02 => 2F (MSb = 0), 0x82 => 2W (MSb = 1)
	Alarm2	617	Alarm year	RO	unsigned short	2016 - 2250	Year	
		618	Alarm month-day	RO	unsigned short	01.01 - 12.31	Month and day	0x020C => Feb12
		619	Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes	0x0805 => 8:05
		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
			624	Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes
			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
			629	Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes
			630	Alarm seconds	RO	unsigned char	0 - 59	Seconds
		Alarm 5	631	Alarm code	RO	unsigned char	1 - 127 F alarms, 129 - 255 W alarms	0x02 => 2F (MSb = 0), 0x82 => 2W (MSb = 1)
			632	Alarm year	RO	unsigned short	2016 - 2250	Year
			633	Alarm month-day	RO	unsigned short	01.01 - 12.31	Month and day
			634	Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes
			635	Alarm seconds	RO	unsigned char	0 - 59	Seconds
		Alarm 6	636	Alarm code	RO	unsigned char	1 - 127 F alarms, 129 - 255 W alarms	0x02 => 2F (MSb = 0), 0x82 => 2W (MSb = 1)
			637	Alarm year	RO	unsigned short	2016 - 2250	Year
			638	Alarm month-day	RO	unsigned short	01.01 - 12.31	Month and day
			639	Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes
			640	Alarm seconds	RO	unsigned char	0 - 59	Seconds
		Alarm 7	641	Alarm code	RO	unsigned char	1 - 127 F alarms, 129 - 255 W alarms	0x02 => 2F (MSb = 0), 0x82 => 2W (MSb = 1)
			642	Alarm year	RO	unsigned short	2016 - 2250	Year
			643	Alarm month-day	RO	unsigned short	01.01 - 12.31	Month and day
			644	Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes
			645	Alarm seconds	RO	unsigned char	0 - 59	Seconds
		Alarm 8	646	Alarm code	RO	unsigned char	1 - 127 F alarms, 129 - 255 W alarms	0x02 => 2F (MSb = 0), 0x82 => 2W (MSb = 1)
			647	Alarm year	RO	unsigned short	2016 - 2250	Year
			648	Alarm month-day	RO	unsigned short	01.01 - 12.31	Month and day
			649	Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes
			650	Alarm seconds	RO	unsigned char	0 - 59	Seconds
		Alarm 9	651	Alarm code	RO	unsigned char	1 - 127 F alarms, 129 - 255 W alarms	0x02 => 2F (MSb = 0), 0x82 => 2W (MSb = 1)
			652	Alarm year	RO	unsigned short	2016 - 2250	Year
			653	Alarm month-day	RO	unsigned short	01.01 - 12.31	Month and day
			654	Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes
			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
			659	Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes
			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
			664	Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes
	Alarms history	Alarm 12	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)
			667	Alarm year	RO	unsigned short	2016 - 2250	Year
			668	Alarm month-day	RO	unsigned short	01.01 - 12.31	Month and day
			669	Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes
		Alarm 13	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)
			672	Alarm year	RO	unsigned short	2016 - 2250	Year
	Alarms history	Alarm 14	673	Alarm month-day	RO	unsigned short	01.01 - 12.31	Month and day
			674	Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes
			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)
			677	Alarm year	RO	unsigned short	2016 - 2250	Year
		Alarm 15	678	Alarm month-day	RO	unsigned short	01.01 - 12.31	Month and day
			679	Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes
			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)
	Alarms history	Alarm 16	682	Alarm year	RO	unsigned short	2016 - 2250	Year
			683	Alarm month-day	RO	unsigned short	01.01 - 12.31	Month and day
			684	Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes
			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
			689	Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes
			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 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
	Alarms 18	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)
		697	Alarm year	RO	unsigned short	2016 - 2250	Year	
	Alarms 19	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)
		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
	Alarms history	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)
		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
	Alarms 20	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)
		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	
	Alarms 21	716	Alarm code	RO	unsigned char	1 - 127 F alarms, 129 - 255 W alarms		0x02 => 2F (MSb = 0), 0x82 => 2W (MSb = 1)
		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)
	Alarms 22	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)
Alarms	Alarms 23							

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
			729	Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes
			730	Alarm seconds	RO	unsigned char	0 - 59	Seconds
			731	Alarm code	RO	unsigned char	1 - 127 F alarms, 129 - 255 W alarms	0x02 => 2F (MSb = 0), 0x82 => 2W (MSb = 1)
	Alarms 25	Alarm 25	732	Alarm year	RO	unsigned short	2016 - 2250	Year
			733	Alarm month-day	RO	unsigned short	01.01 - 12.31	Month and day
			734	Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes
			735	Alarm seconds	RO	unsigned char	0 - 59	Seconds
			736	Alarm code	RO	unsigned char	1 - 127 F alarms, 129 - 255 W alarms	0x02 => 2F (MSb = 0), 0x82 => 2W (MSb = 1)
	Alarms 26	Alarm 26	737	Alarm year	RO	unsigned short	2016 - 2250	Year
			738	Alarm month-day	RO	unsigned short	01.01 - 12.31	Month and day
			739	Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes
			740	Alarm seconds	RO	unsigned char	0 - 59	Seconds
			741	Alarm code	RO	unsigned char	1 - 127 F alarms, 129 - 255 W alarms	0x02 => 2F (MSb = 0), 0x82 => 2W (MSb = 1)
	Alarms 27	Alarm 27	742	Alarm year	RO	unsigned short	2016 - 2250	Year
			743	Alarm month-day	RO	unsigned short	01.01 - 12.31	Month and day
			744	Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes
			745	Alarm seconds	RO	unsigned char	0 - 59	Seconds
			746	Alarm code	RO	unsigned char	1 - 127 F alarms, 129 - 255 W alarms	0x02 => 2F (MSb = 0), 0x82 => 2W (MSb = 1)
	Alarms 28	Alarm 28	747	Alarm year	RO	unsigned short	2016 - 2250	Year
			748	Alarm month-day	RO	unsigned short	01.01 - 12.31	Month and day
			749	Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes
			750	Alarm seconds	RO	unsigned char	0 - 59	Seconds
			751	Alarm code	RO	unsigned char	1 - 127 F alarms, 129 - 255 W alarms	0x02 => 2F (MSb = 0), 0x82 => 2W (MSb = 1)
	Alarms 29	Alarm 29	752	Alarm year	RO	unsigned short	2016 - 2250	Year
			753	Alarm month-day	RO	unsigned short	01.01 - 12.31	Month and day
			754	Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes
			755	Alarm seconds	RO	unsigned char	0 - 59	Seconds
			756	Alarm code	RO	unsigned char	1 - 127 F alarms, 129 - 255 W alarms	0x02 => 2F (MSb = 0), 0x82 => 2W (MSb = 1)
	Alarms 30	Alarm 30	757	Alarm year	RO	unsigned short	2016 - 2250	Year
			758	Alarm month-day	RO	unsigned short	01.01 - 12.31	Month and day
			759	Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes
			760	Alarm seconds	RO	unsigned char	0 - 59	Seconds
			761	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 31	762	Alarm year	RO	unsigned short	2016 - 2250	Year
			763	Alarm month-day	RO	unsigned short	01.01 - 12.31	Month and day
			764	Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes
			765	Alarm seconds	RO	unsigned char	0 - 59	Seconds
			766	Alarm code	RO	unsigned char	1 - 127 F alarms, 129 - 255 W alarms	0x02 => 2F (MSb = 0), 0x82 => 2W (MSb = 1)
		Alarm 32	767	Alarm year	RO	unsigned short	2016 - 2250	Year
			768	Alarm month-day	RO	unsigned short	01.01 - 12.31	Month and day
	Alarms history	Alarm 33	769	Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes
			770	Alarm seconds	RO	unsigned char	0 - 59	Seconds
			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
		Alarm 34	774	Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes
			775	Alarm seconds	RO	unsigned char	0 - 59	Seconds
	Alarms history	Alarm 35	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
			779	Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes
			780	Alarm seconds	RO	unsigned char	0 - 59	Seconds
		Alarm 36	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
		Alarm 37	783	Alarm month-day	RO	unsigned short	01.01 - 12.31	Month and day
			784	Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes
			785	Alarm seconds	RO	unsigned char	0 - 59	Seconds
			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
			789	Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes
			790	Alarm seconds	RO	unsigned char	0 - 59	Seconds
			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
			794	Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes
			795	Alarm seconds	RO	unsigned char	0 - 59	Seconds
			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 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	
		801	Alarm code	RO	unsigned char	1 - 127 F alarms, 129 - 255 W alarms		0x02 => 2F (MSb = 0), 0x82 => 2W (MSb = 1)
	Alarms 39	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	
		806	Alarm code	RO	unsigned char	1 - 127 F alarms, 129 - 255 W alarms		0x02 => 2F (MSb = 0), 0x82 => 2W (MSb = 1)
	Alarms 40	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	
		811	Alarm code	RO	unsigned char	1 - 127 F alarms, 129 - 255 W alarms		0x02 => 2F (MSb = 0), 0x82 => 2W (MSb = 1)
	Alarms history	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	
		816	Alarm code	RO	unsigned char	1 - 127 F alarms, 129 - 255 W alarms		0x02 => 2F (MSb = 0), 0x82 => 2W (MSb = 1)
	Alarms 42	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	
		821	Alarm code	RO	unsigned char	1 - 127 F alarms, 129 - 255 W alarms		0x02 => 2F (MSb = 0), 0x82 => 2W (MSb = 1)
	Alarms 43	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	
		826	Alarm code	RO	unsigned char	1 - 127 F alarms, 129 - 255 W alarms		0x02 => 2F (MSb = 0), 0x82 => 2W (MSb = 1)
	Alarms 44	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	
		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
			834	Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes
			835	Alarm seconds	RO	unsigned char	0 - 59	Seconds
			836	Alarm code	RO	unsigned char	1 - 127 F alarms, 129 - 255 W alarms	0x02 => 2F (MSb = 0), 0x82 => 2W (MSb = 1)
	Alarms	Alarm 46	837	Alarm year	RO	unsigned short	2016 - 2250	Year
			838	Alarm month-day	RO	unsigned short	01.01 - 12.31	Month and day
			839	Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes
			840	Alarm seconds	RO	unsigned char	0 - 59	Seconds
			841	Alarm code	RO	unsigned char	1 - 127 F alarms, 129 - 255 W alarms	0x02 => 2F (MSb = 0), 0x82 => 2W (MSb = 1)
	Alarms history	Alarm 47	842	Alarm year	RO	unsigned short	2016 - 2250	Year
			843	Alarm month-day	RO	unsigned short	01.01 - 12.31	Month and day
			844	Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes
			845	Alarm seconds	RO	unsigned char	0 - 59	Seconds
			846	Alarm code	RO	unsigned char	1 - 127 F alarms, 129 - 255 W alarms	0x02 => 2F (MSb = 0), 0x82 => 2W (MSb = 1)
		Alarm 48	847	Alarm year	RO	unsigned short	2016 - 2250	Year
			848	Alarm month-day	RO	unsigned short	01.01 - 12.31	Month and day
			849	Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes
			850	Alarm seconds	RO	unsigned char	0 - 59	Seconds
			851	Alarm code	RO	unsigned char	1 - 127 F alarms, 129 - 255 W alarms	0x02 => 2F (MSb = 0), 0x82 => 2W (MSb = 1)
		Alarm 49	852	Alarm year	RO	unsigned short	2016 - 2250	Year
			853	Alarm month-day	RO	unsigned short	01.01 - 12.31	Month and day
			854	Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes
			855	Alarm seconds	RO	unsigned char	0 - 59	Seconds
			856	Alarm code	RO	unsigned char	1 - 127 F alarms, 129 - 255 W alarms	0x02 => 2F (MSb = 0), 0x82 => 2W (MSb = 1)
	Monitoring	Detailed information	857	Alarm year	RO	unsigned short	2016 - 2250	Year
			858	Alarm month-day	RO	unsigned short	01.01 - 12.31	Month and day
			859	Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes
			860	Alarm seconds	RO	unsigned char	0 - 59	Seconds
			861	Alarm code	RO	unsigned char	1 - 127 F alarms, 129 - 255 W alarms	0x02 => 2F (MSb = 0), 0x82 => 2W (MSb = 1)
			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 intensivity	RO	unsigned short	0 - 1000	x10 %	
		911	Current extract fan intensivity	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	%	
		952	Air quality or humidity (sensor 1 - B8)	RO	unsigned short	0 - 65535	ppm,%	
	Operation counters	956	Indoor humidity	RO	unsigned short	AH:-2 - 10000	sensor fail - 2, sensor not found - 1, AHU is off - 0, value 561 => 5.61 g/m3 1 - 10000 x100 g/m3	
		957	Outdoor humidity	RO	unsigned short	AH:-2 - 10000	sensor fail - 2, sensor not found - 1, AHU is off - 0, value 1305 => 13.05 g/m3 1 - 10000 x100 g/m3	
Panel	Panel	927-928	Supply fan, Day	RO	unsigned int	0 - 4294967296	h	
		929-930	Supply fan, Month	RO	unsigned int	0 - 4294967296	h	
		931-932	Supply fan, Total	RO	unsigned int	0 - 4294967296	h	
		933-934	Exhaust fan, Day	RO	unsigned int	0 - 4294967296	h	
		935-936	Exhaust fan, Month	RO	unsigned int	0 - 4294967296	h	
		937-938	Exhaust fan, Total	RO	unsigned int	0 - 4294967296	h	
		939-940	Electric heater, Day	RO	unsigned int	0 - 4294967296	h	
		941-942	Electric heater, Month	RO	unsigned int	0 - 4294967296	h	
		943-944	Electric heater, Total	RO	unsigned int	0 - 4294967296	h	
		961-962	Heat exchanger, Day	RO	unsigned int	0 - 4294967296	h	
		963-964	Heat exchanger, Month	RO	unsigned int	0 - 4294967296	h	
		965-966	Heat exchanger, Total	RO	unsigned int	0 - 4294967296	h	
		946	Panel 1 temperature	RO	signed short	-500 - 1200, -32768 - panel not connected	x10 C	
		947	Panel 1 humidity	RO	signed char	0 - 100, -100 - panel not connected	%	
		948	Panel 1 air quality	RO	unsigned short	0 - 65535	ppm, ppb	
		949	Panel 2 temperature	RO	signed short	-500 - 1200, -32768 - panel not connected	x10 C	
		950	Panel 2 humidity	RO	signed char	0 - 100, -100 - panel not connected	%	
		951	Panel 2 air quality	RO	unsigned short	0 - 65535	ppm, ppb	
		954	Connected panels	RO	unsigned char	0 - 3	None = 0, Panel(1) = 1, Panel(2) = 2, Panel(1) and Panel(2) = 3	

Group	Subgroups	Register number	Register name	Data			Values and Units	Examples and comments
				Access	Type	Range		
Others	DOUT	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 4bit <<28, 2nd number 4bit <<24, 3rd number 4bit <<20, 4th number 8bit <<12, 5th number 12bit<<0"	18886660 => 2.1.2.3.4
		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 Overide 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%

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