

Description of C6 / C6M controller Modbus

Med forbehold om endringer og rettelser

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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.

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

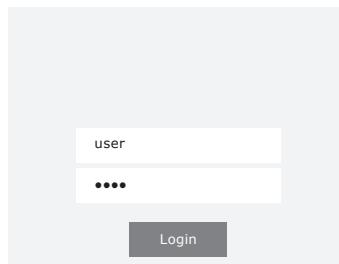
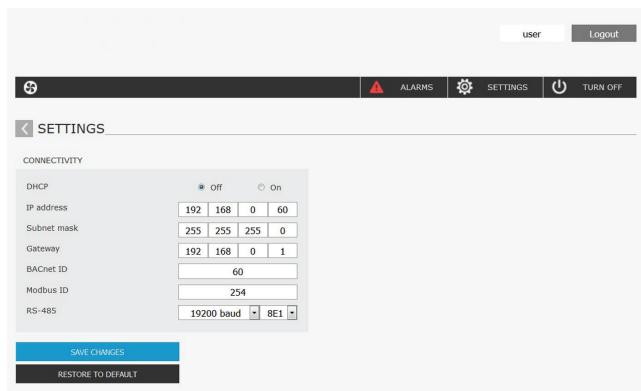


Fig. 1. Website login window

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).

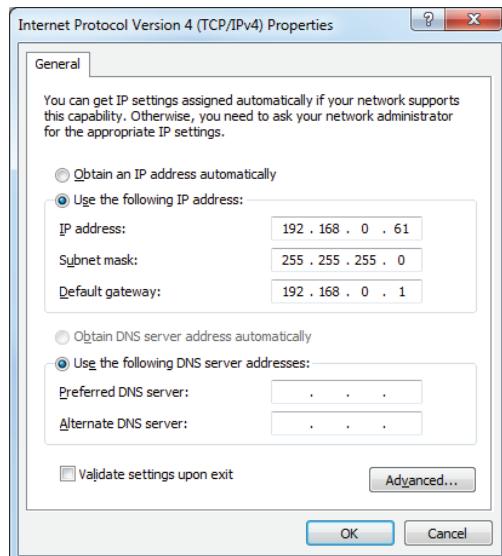
**Fig. 2.** Connectivity settings

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

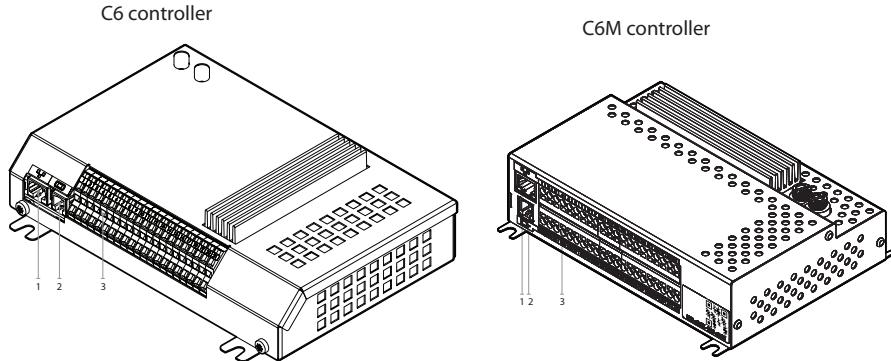
- your device and air handling unit are connected in the same network;
- your device and air handling unit are in the same subnet;
- your proxy server and firewall isn't blocking connection;
- you typed correct IP address.

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).



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

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

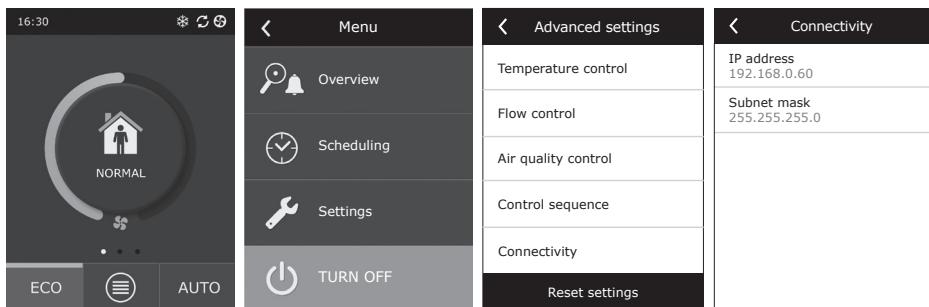
RS485	Modbus RTU			TG1	DX	AUX	B1	B5	OUTPUTS	S1
	A	B	0..10V							
	1	2	3	4	5	6	7	8	9	10
Override	NO	—	—	Water mixing valve actuator						
Kitchen hood	NO	—	—							
Fireplace	NO	—	—							
Fire alarm	NC	—	—							
Common	C	—	—							
Common	C	—	—							
Supply air VAV sensor	0..10V	GND	+24V			24V DC: 0..10V output				
Exhaust air VAV sensor	GND	+24V								
Air quality or humidity sensor 1	0..10V	GND	+24V				Supply air temp. sensor			
Air quality or humidity sensor 2	GND	+24V					Return water temp. sensor			
Air damper actuator Max. load 15W	N	~230V	2				C	Common		
							NO	—	Heating	
							NO	—	Cooling	
							NO	—	Alarm	
INPUTS	B6	B7	B8	B9	FG1					

Fig. 5. C6 connection diagram for external elements

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

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.

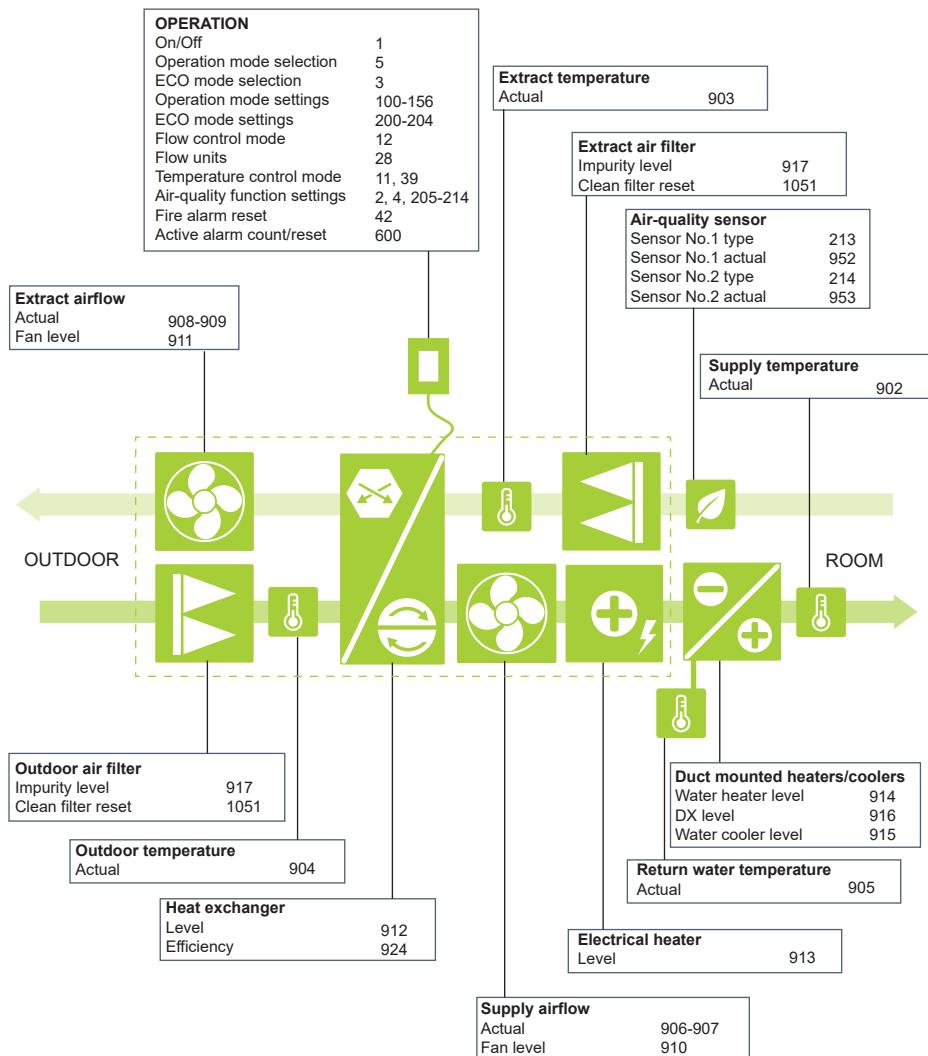


Table 3

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	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
Main control	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	
Main control	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, l/s = 1	
		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
		31	Month/Day	R/W	unsigned short	MSB 0x01 - 0x0C, LSB 0x01 - 0x1F	MSB - month, LSB - day	0x020C => Feb12
Mode settings	Time and date	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 standard epoch of 1/1/1970	1456329600 => 2016.02.24 16:00:00
		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	
Mode settings	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	
		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, %	
Mode settings	Intensive	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	
		130	Timer time	R/W	unsigned short	0 - 300	Minutes	
	Fireplace	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	
		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	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	
		157	Delayed start	R/W	unsigned char	0 - 10	Minutes	
		158	Delayed stop	R/W	unsigned char	0 - 30	Minutes	
Holidays	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 - 205122400	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 - 205122400	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
Eco	Eco	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	C02: 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	
		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	Event 1	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 2	Mode	R/W	unsigned char	0 - 4	Standby = 0, Away = 1, Normal =2, Intensive =3, Boost = 4	Standby = 0, Away = 1, Normal =2, Intensive =3, Boost = 4
			Start time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05
		Event 3	Mode	R/W	unsigned char	0 - 4	Standby = 0, Away = 1, Normal =2, Intensive =3, Boost = 4	Standby = 0, Away = 1, Normal =2, Intensive =3, Boost = 4
			Start time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05
		Event 4	Mode	R/W	unsigned char	0 - 4	Standby = 0, Away = 1, Normal =2, Intensive =3, Boost = 4	Standby = 0, Away = 1, Normal =2, Intensive =3, Boost = 4
			Start time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05
		Event 5	Mode	R/W	unsigned char	0 - 4	Standby = 0, Away = 1, Normal =2, Intensive =3, Boost = 4	Standby = 0, Away = 1, Normal =2, Intensive =3, Boost = 4
			Start time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05
			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	316	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	Operation program 1	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
		Event 2	Operation program 2	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
		Event 3	Operation program 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
		Event 4	Operation program 2	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
		Event 5	Operation program 3	325	Stop time	R/W	unsigned short	0:00 - 23:59 MSB - hours, LSB - minutes
				326	Mode	R/W	unsigned char	0 - 4 Standby = 0, Away = 1, Normal =2, Intensive =3, Boost = 4
		Event 4	Operation program 3	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
		Stay at home	Operation program 3	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
			Event 5	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
				335	Stop time	R/W	unsigned short	0:00 - 23:59 MSB - hours, LSB - minutes
		Event 2	Operation program 3	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	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
		Operation program 4	Event 5	344	Stop time	R/W unsigned short 0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05
				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
			Event 6	347	Stop time	R/W unsigned short 0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05
				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	
		Operation program 5	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
			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	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	
		Event 1		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	
		Event 2		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	
	Working week	Operation program 1	Event 3	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	
			Event 4	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	
		Operation program 2	Weekday mask	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	
		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	
				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
		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
			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 3	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 4	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
				415	Stop time	R/W	unsigned short	0:00 - 23:59 MSB - hours, LSB - minutes
				416	Mode	R/W	unsigned char	0 - 4 Standby = 0, Away = 1, Normal =2, Intensive =3, Boost = 4
		Operation program 4	Event 2	417	Start time	R/W	unsigned short	0:00 - 23:59 MSB - hours, LSB - minutes
				418	Stop time	R/W	unsigned short	0:00 - 23:59 MSB - hours, LSB - minutes
				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
				421	Stop time	R/W	unsigned short	0:00 - 23:59 MSB - hours, LSB - minutes
		Operation program 4	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
				424	Stop time	R/W	unsigned short	0:00 - 23:59 MSB - hours, LSB - minutes
				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
				427	Stop time	R/W	unsigned short	0:00 - 23:59 MSB - hours, LSB - minutes
Office	Operation program 1	Weekday mask	Event 1	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
				431	Stop time	R/W	unsigned short	0:00 - 23:59 MSB - hours, LSB - minutes
		Event 2	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
				434	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	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
		Operation program 2	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
			Event 1	443	Stop time	R/W unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes
				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
		Operation program 3	Event 2	445	Mode	R/W unsigned char	0 - 4	Standby = 0, Away = 1, Normal =2, Intensive =3, Boost = 4
			Event 1	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
			Event 3	448	Mode	R/W unsigned char	0 - 4	Standby = 0, Away = 1, Normal =2, Intensive =3, Boost = 4
			Event 2	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
			Event 4	451	Mode	R/W unsigned char	0 - 4	Standby = 0, Away = 1, Normal =2, Intensive =3, Boost = 4
			Event 3	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
			Event 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
			Event 5	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	Event 1	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
		Operation program 3	Event 2	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
			Event 3	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
		Weekday mask	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
				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
			Event 5	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
		Operation program 4	Event 1	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
			Event 2	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	Operation program 4	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
	Event 4	Event 2	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	Custom	Weekday mask	Event 1	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	Standby = 0, Away = 1, Normal =2, Intensive =3, Boost = 4
Operation program 2	Custom	Weekday mask	Event 2	R/W	unsigned char	0 - 4	Standby = 0, Away = 1, Normal =2, Intensive =3, Boost = 4	MSB - hours, LSB - minutes 0x0805 => 8:05
Operation program 3	Custom	Weekday mask	Event 3	R/W	unsigned char	0 - 4	Standby = 0, Away = 1, Normal =2, Intensive =3, Boost = 4	MSB - hours, LSB - minutes 0x0805 => 8:05
Operation program 4	Custom	Weekday mask	Event 4	R/W	unsigned char	0 - 4	Standby = 0, Away = 1, Normal =2, Intensive =3, Boost = 4	MSB - hours, LSB - minutes 0x0805 => 8:05
Operation program 5	Custom	Weekday mask	Event 5	R/W	unsigned char	0 - 4	Standby = 0, Away = 1, Normal =2, Intensive =3, Boost = 4	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 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	540	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
			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
			543	Stop time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes
			544	Mode	R/W	unsigned char	0 - 4	Standby = 0, Away = 1, Normal = 2, Intensive = 3, Boost = 4
		Event 2	545	Start time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes
			546	Stop time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes
			547	Mode	R/W	unsigned char	0 - 4	Standby = 0, Away = 1, Normal = 2, Intensive = 3, Boost = 4
		Event 3	548	Start time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes
			549	Stop time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes
	Events	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
			552	Stop time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes
			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
		Event 5	555	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		
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)
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	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
			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
			634	Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes
			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
			639	Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes
			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
			644	Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes
			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
			649	Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes
			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
			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 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
			694	Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes
			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 history	Alarm 18	698	Alarm month-day	RO	unsigned short	01.01 - 12.31	Month and day
			699	Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes
			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
	Alarms history	Alarm 19	704	Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes
			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
			709	Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes
	Alarms history	Alarm 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
			714	Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes
			715	Alarm seconds	RO	unsigned char	0 - 59	Seconds
	Alarms history	Alarm 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
			719	Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes
			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 history	Alarm 22	722	Alarm year	RO	unsigned short	2016 - 2250	Year
			723	Alarm month-day	RO	unsigned short	01.01 - 12.31	Month and day
			724	Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes
			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 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	
		731	Alarm code	RO	unsigned char	1 - 127 F alarms, 129 - 255 W alarms		0x02 => 2F (MSb = 0), 0x82 => 2W (MSb = 1)
	Alarms 25	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	
		736	Alarm code	RO	unsigned char	1 - 127 F alarms, 129 - 255 W alarms		0x02 => 2F (MSb = 0), 0x82 => 2W (MSb = 1)
	Alarms 26	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	
		741	Alarm code	RO	unsigned char	1 - 127 F alarms, 129 - 255 W alarms		0x02 => 2F (MSb = 0), 0x82 => 2W (MSb = 1)
	Alarms history 27	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	
		746	Alarm code	RO	unsigned char	1 - 127 F alarms, 129 - 255 W alarms		0x02 => 2F (MSb = 0), 0x82 => 2W (MSb = 1)
	Alarms 28	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	
		751	Alarm code	RO	unsigned char	1 - 127 F alarms, 129 - 255 W alarms		0x02 => 2F (MSb = 0), 0x82 => 2W (MSb = 1)
	Alarms 29	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	
		756	Alarm code	RO	unsigned char	1 - 127 F alarms, 129 - 255 W alarms		0x02 => 2F (MSb = 0), 0x82 => 2W (MSb = 1)
	Alarms 30	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	
		761	Alarm code	RO	unsigned char	1 - 127 F alarms, 129 - 255 W alarms		0x02 => 2F (MSb = 0), 0x82 => 2W (MSb = 1)

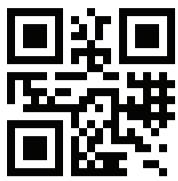
Group	Subgroups	Register number	Register name	Data			Values and Units	Examples and comments
				Access	Type	Range		
Alarms	Alarms history	Alarm 31	762	Alarm year	RO	unsigned short	2016 - 2250	Year
			763	Alarm month-day	RO	unsigned short	01.01 - 12.31	Month and day
			764	Alarm time	RO	unsigned short	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 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
			799	Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes
			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	Alarm 39	802	Alarm year	RO	unsigned short	2016 - 2250	Year
			803	Alarm month-day	RO	unsigned short	01.01 - 12.31	Month and day
			804	Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes
			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	Alarm 40	807	Alarm year	RO	unsigned short	2016 - 2250	Year
			808	Alarm month-day	RO	unsigned short	01.01 - 12.31	Month and day
			809	Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes
			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 41	Alarm 41	812	Alarm year	RO	unsigned short	2016 - 2250	Year
			813	Alarm month-day	RO	unsigned short	01.01 - 12.31	Month and day
			814	Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes
			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	Alarm 42	817	Alarm year	RO	unsigned short	2016 - 2250	Year
			818	Alarm month-day	RO	unsigned short	01.01 - 12.31	Month and day
			819	Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes
			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	Alarm 43	822	Alarm year	RO	unsigned short	2016 - 2250	Year
			823	Alarm month-day	RO	unsigned short	01.01 - 12.31	Month and day
			824	Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes
			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	Alarm 44	827	Alarm year	RO	unsigned short	2016 - 2250	Year
			828	Alarm month-day	RO	unsigned short	01.01 - 12.31	Month and day
			829	Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes
			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 history	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)
	Detailed information	Monitoring	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 Imprurity	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	
Efficiency status	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)	
		927-928	AHU consumption, Day	RO	unsigned int	0 - 4294967296	Wh	
Consumption	Consumption	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)	
		946	Panel 1 temperature	RO	signed short	-500 - 1200	x10 C	
Panel	Panel	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	
		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	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	
	DIN	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 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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