

Description of
C6
controller Modbus

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

C6 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

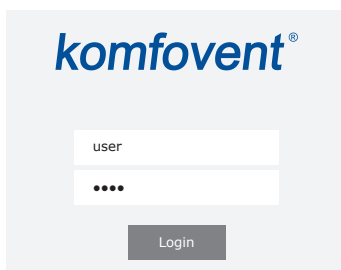


Fig. 1. Website login window

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).

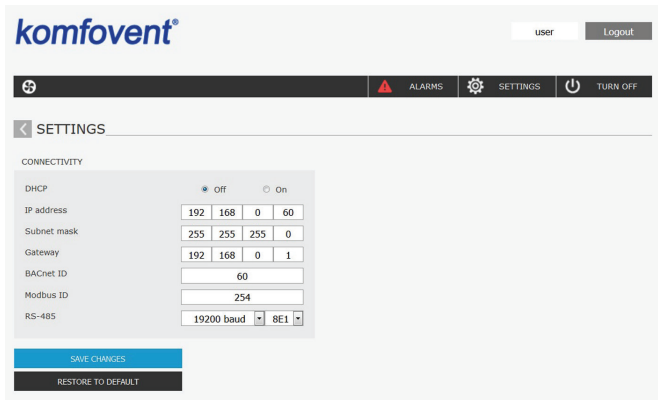


Fig. 2. Connectivity settings

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 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.

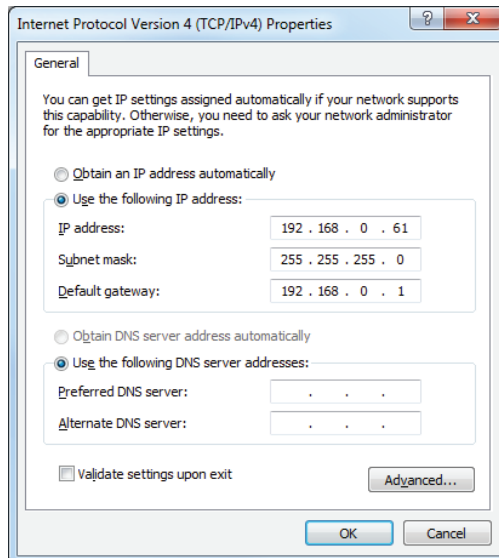
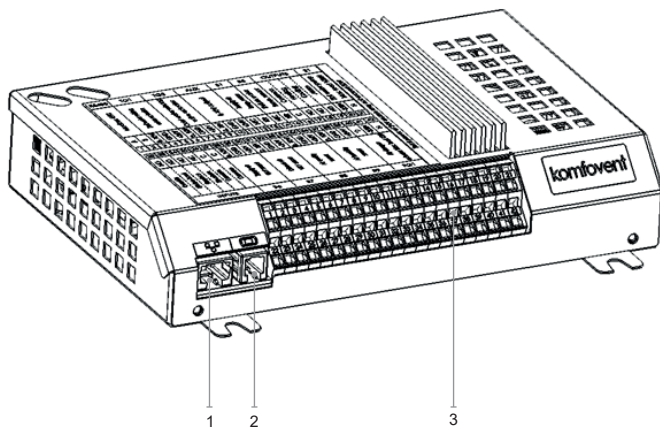


Fig. 3. Personal computer static IP address configuration

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. C6 controller ground point (any GND terminal from connection too external elements – 4, 7, 10, 29, 32, 35, 38) 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

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

Fig. 5. Connection diagram for external elements

Modbus TCP protocol works via Ethernet interface, connection is provided to RJ-45 socket on the C6 controller (Fig. 4). Default IP address is 192.168.0.60, and port is 502. To connect C6 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.

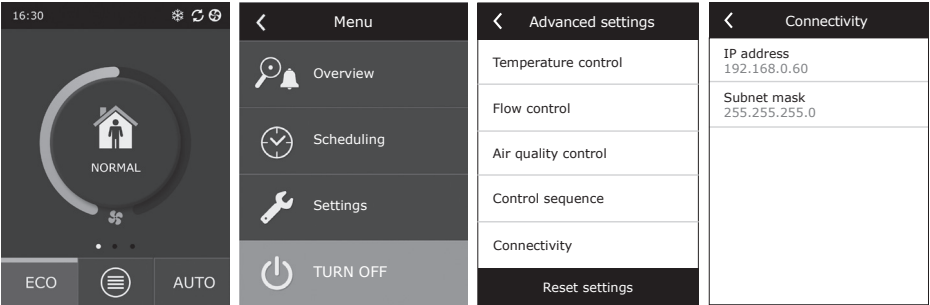


Fig. 6. C6.1 touch panel connectivity settings

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

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

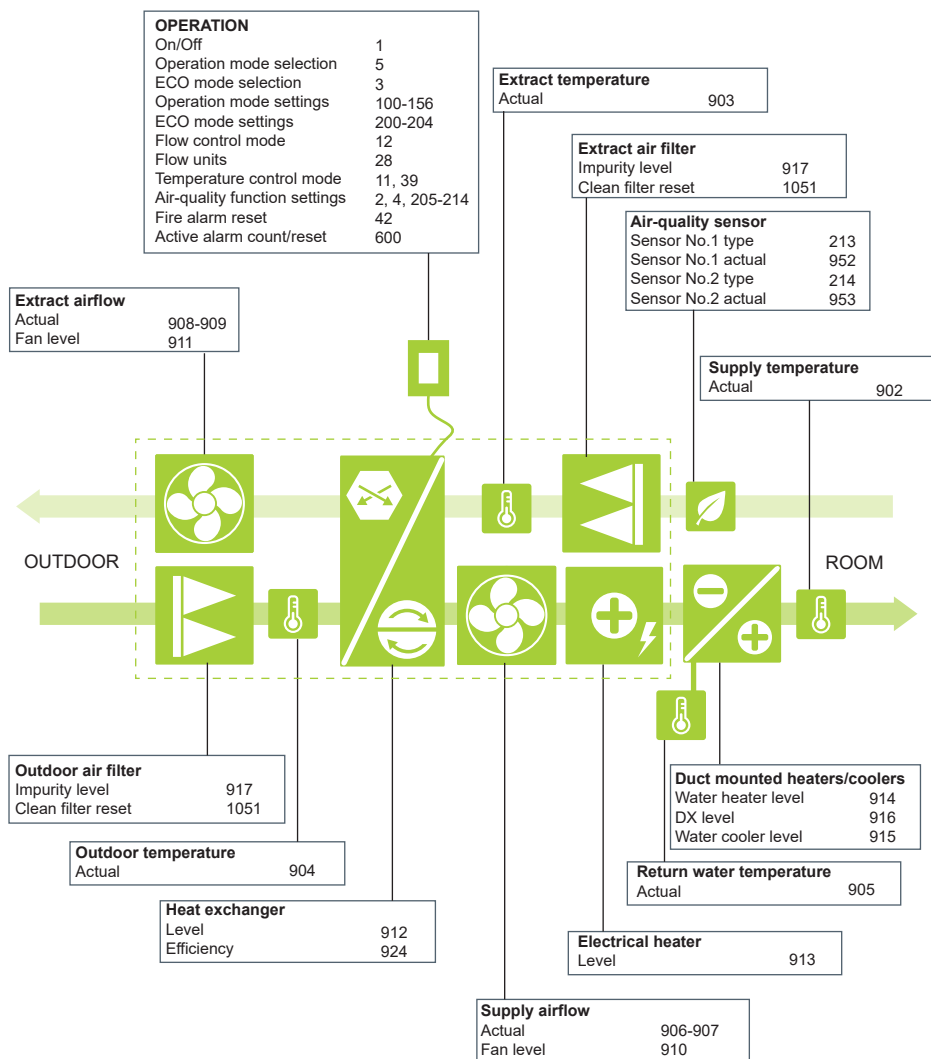


Table 3

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

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

Group	Subgroups	Register number	Register name	Data			Values and Units	Examples and comments
				Access	Type	Range		
Mode settings	Boost	118-119	Supply flow	R/W	unsigned int	0 - 200000	m ³ /h, l/s, Pa, %	
		120-121	Extract flow	R/W	unsigned int	0 - 200000	m ³ /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	m ³ /h, l/s, %	
		126-127	Extract flow	R/W	unsigned int	0 - 200000	m ³ /h, l/s, %	
		128	Setpoint	R/W	signed short	50 - 400	x10 C	
		129	Heating	R/W	unsigned char	0 - 1	Off = 0, On = 1	
	Fireplace	130	Timer time	R/W	unsigned short	0 - 300	Minutes	
		131-132	Supply flow	R/W	unsigned int	0 - 200000	m ³ /h, l/s, %	
		133-134	Extract flow	R/W	unsigned int	0 - 200000	m ³ /h, l/s, %	
		135	Setpoint	R/W	signed short	50 - 400	x10 C	
	Override	136	Heating	R/W	unsigned char	0 - 1	Off = 0, On = 1	
		137	Timer time	R/W	unsigned short	0 - 300	Minutes	
		138-139	Supply flow	R/W	unsigned int	0 - 200000	m ³ /h, l/s, %	
		140-141	Extract flow	R/W	unsigned int	0 - 200000	m ³ /h, l/s, %	
	Holidays	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	
		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		
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	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	
		214	Air quality sensor type B9	R/W	unsigned char	0 - 3	None = 0, CO2 = 1, VOC = 2, RH = 3	
Scheduler	Stay at home	Weekday mask	300 Weekday mask	R/W	unsigned char	0b00000000 - 0b01111111	Mo ==> 0 bit, Tu ==> 1 bit, We ==> 2 bit, Th ==> 3 bit, Fr ==> 4 bit, Sa ==> 5 bit, Su ==> 6 bit	
		Event 1	301 Mode	R/W	unsigned char	0 - 4	Standby = 0, Away = 1, Normal =2, Intensive =3, Boost = 4	
			302 Start time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 ==> 8:05
			303 Stop time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 ==> 8:05
		Event 2	304 Mode	R/W	unsigned char	0 - 4	Standby = 0, Away = 1, Normal =2, Intensive =3, Boost = 4	
			305 Start time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 ==> 8:05
			306 Stop time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 ==> 8:05
		Event 3	307 Mode	R/W	unsigned char	0 - 4	Standby = 0, Away = 1, Normal =2, Intensive =3, Boost = 4	
			308 Start time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 ==> 8:05
			309 Stop time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 ==> 8:05
		Event 4	310 Mode	R/W	unsigned char	0 - 4	Standby = 0, Away = 1, Normal =2, Intensive =3, Boost = 4	
			311 Start time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 ==> 8:05
			312 Stop time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 ==> 8:05
		Event 5	313 Mode	R/W	unsigned char	0 - 4	Standby = 0, Away = 1, Normal =2, Intensive =3, Boost = 4	
			314 Start time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 ==> 8:05
			315 Stop time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 ==> 8:05

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

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

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

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

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

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

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

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

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

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

Group	Subgroups	Register number	Register name	Data			Values and Units	Examples and comments
				Access	Type	Range		
Alarms	Active alarms	600	Active alarms count	R/W	unsigned char	0 - 10		Writing 0x99C6 - Active alarms reset and restore previous mode
		601	Active alarm 1 code (newest)	RO	unsigned char	0x01 - 0xFF		0x02 => 2F (MSb = 0), 0x82 => 2W (MSb = 1)
		602	Active alarm 2 code	RO	unsigned char	0x01 - 0xFF		0x02 => 2F (MSb = 0), 0x82 => 2W (MSb = 1)
		603	Active alarm 3 code	RO	unsigned char	0x01 - 0xFF		0x02 => 2F (MSb = 0), 0x82 => 2W (MSb = 1)
		604	Active alarm 4 code	RO	unsigned char	0x01 - 0xFF		0x02 => 2F (MSb = 0), 0x82 => 2W (MSb = 1)
		605	Active alarm 5 code	RO	unsigned char	0x01 - 0xFF		0x02 => 2F (MSb = 0), 0x82 => 2W (MSb = 1)
		606	Active alarm 6 code	RO	unsigned char	0x01 - 0xFF		0x02 => 2F (MSb = 0), 0x82 => 2W (MSb = 1)
		607	Active alarm 7 code	RO	unsigned char	0x01 - 0xFF		0x02 => 2F (MSb = 0), 0x82 => 2W (MSb = 1)
		608	Active alarm 8 code	RO	unsigned char	0x01 - 0xFF		0x02 => 2F (MSb = 0), 0x82 => 2W (MSb = 1)
		609	Active alarm 9 code	RO	unsigned char	0x01 - 0xFF		0x02 => 2F (MSb = 0), 0x82 => 2W (MSb = 1)
		610	Active alarm 10 code	RO	unsigned char	0x01 - 0xFF		0x02 => 2F (MSb = 0), 0x82 => 2W (MSb = 1)
	Alarms history	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)
		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	0x020C => Feb12
			624 Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes	0x0805 => 8:05
			625 Alarm seconds	RO	unsigned char	0 - 59	Seconds	
		Alarm 4	626 Alarm code	RO	unsigned char	1 - 127 F alarms, 129 - 255 W alarms		0x02 => 2F (MSb = 0), 0x82 => 2W (MSb = 1)
			627 Alarm year	RO	unsigned short	2016 - 2250	Year	
			628 Alarm month-day	RO	unsigned short	01.01 - 12.31	Month and day	0x020C => Feb12
			629 Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes	0x0805 => 8:05
			630 Alarm seconds	RO	unsigned char	0 - 59	Seconds	
		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	0x020C => Feb12
			634 Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes	0x0805 => 8:05
			635 Alarm seconds	RO	unsigned char	0 - 59	Seconds	
		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	0x020C => Feb12
			639 Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes	0x0805 => 8:05
			640 Alarm seconds	RO	unsigned char	0 - 59	Seconds	
		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	0x020C => Feb12
			644 Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes	0x0805 => 8:05
			645 Alarm seconds	RO	unsigned char	0 - 59	Seconds	
		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	0x020C => Feb12
			649 Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes	0x0805 => 8:05
			650 Alarm seconds	RO	unsigned char	0 - 59	Seconds	
		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	0x020C => Feb12
			654 Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes	0x0805 => 8:05
			655 Alarm seconds	RO	unsigned char	0 - 59	Seconds	
		Alarm 9	656 Alarm code	RO	unsigned char	1 - 127 F alarms, 129 - 255 W alarms		0x02 => 2F (MSb = 0), 0x82 => 2W (MSb = 1)
			657 Alarm year	RO	unsigned short	2016 - 2250	Year	
			658 Alarm month-day	RO	unsigned short	01.01 - 12.31	Month and day	0x020C => Feb12
			659 Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes	0x0805 => 8:05
			660 Alarm seconds	RO	unsigned char	0 - 59	Seconds	

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

Group	Subgroups	Register number	Register name	Data			Values and Units	Examples and comments
				Access	Type	Range		
Alarms	Alarms history	Alarm 17	692 Alarm year	RO	unsigned short	2016 - 2250	Year	
			693 Alarm month-day	RO	unsigned short	01.01 - 12.31	Month and day	0x020C => Feb12
			694 Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes	0x0805 => 8:05
			695 Alarm seconds	RO	unsigned char	0 - 59	Seconds	
		Alarm 18	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	
			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	
		Alarm 19	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
			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	
		Alarm 20	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
			710 Alarm seconds	RO	unsigned char	0 - 59	Seconds	
		Alarm 21	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	
		Alarm 22	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	
		Alarm 23	721 Alarm code	RO	unsigned char	1 - 127 F alarms, 129 - 255 W alarms		0x02 => 2F (MSb = 0), 0x82 => 2W (MSb = 1)
			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	
		Alarm 23	726 Alarm code	RO	unsigned char	1 - 127 F alarms, 129 - 255 W alarms		0x02 => 2F (MSb = 0), 0x82 => 2W (MSb = 1)

Group	Subgroups	Register number	Register name	Data			Values and Units	Examples and comments
				Access	Type	Range		
Alarms	Alarms history	Alarm 24	727 Alarm year	RO	unsigned short	2016 - 2250	Year	
			728 Alarm month-day	RO	unsigned short	01.01 - 12.31	Month and day	0x020C => Feb12
			729 Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes	0x0805 => 8:05
			730 Alarm seconds	RO	unsigned char	0 - 59	Seconds	
		Alarm 25	731 Alarm code	RO	unsigned char	1 - 127 F alarms, 129 - 255 W alarms		0x02 => 2F (MSb = 0), 0x82 => 2W (MSb = 1)
			732 Alarm year	RO	unsigned short	2016 - 2250	Year	
			733 Alarm month-day	RO	unsigned short	01.01 - 12.31	Month and day	0x020C => Feb12
			734 Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes	0x0805 => 8:05
			735 Alarm seconds	RO	unsigned char	0 - 59	Seconds	
		Alarm 26	736 Alarm code	RO	unsigned char	1 - 127 F alarms, 129 - 255 W alarms		0x02 => 2F (MSb = 0), 0x82 => 2W (MSb = 1)
			737 Alarm year	RO	unsigned short	2016 - 2250	Year	
			738 Alarm month-day	RO	unsigned short	01.01 - 12.31	Month and day	0x020C => Feb12
			739 Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes	0x0805 => 8:05
			740 Alarm seconds	RO	unsigned char	0 - 59	Seconds	
		Alarm 27	741 Alarm code	RO	unsigned char	1 - 127 F alarms, 129 - 255 W alarms		0x02 => 2F (MSb = 0), 0x82 => 2W (MSb = 1)
			742 Alarm year	RO	unsigned short	2016 - 2250	Year	
			743 Alarm month-day	RO	unsigned short	01.01 - 12.31	Month and day	0x020C => Feb12
			744 Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes	0x0805 => 8:05
			745 Alarm seconds	RO	unsigned char	0 - 59	Seconds	
		Alarm 28	746 Alarm code	RO	unsigned char	1 - 127 F alarms, 129 - 255 W alarms		0x02 => 2F (MSb = 0), 0x82 => 2W (MSb = 1)
			747 Alarm year	RO	unsigned short	2016 - 2250	Year	
			748 Alarm month-day	RO	unsigned short	01.01 - 12.31	Month and day	0x020C => Feb12
			749 Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes	0x0805 => 8:05
			750 Alarm seconds	RO	unsigned char	0 - 59	Seconds	
		Alarm 29	751 Alarm code	RO	unsigned char	1 - 127 F alarms, 129 - 255 W alarms		0x02 => 2F (MSb = 0), 0x82 => 2W (MSb = 1)
			752 Alarm year	RO	unsigned short	2016 - 2250	Year	
			753 Alarm month-day	RO	unsigned short	01.01 - 12.31	Month and day	0x020C => Feb12
			754 Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes	0x0805 => 8:05
			755 Alarm seconds	RO	unsigned char	0 - 59	Seconds	
		Alarm 30	756 Alarm code	RO	unsigned char	1 - 127 F alarms, 129 - 255 W alarms		0x02 => 2F (MSb = 0), 0x82 => 2W (MSb = 1)
			757 Alarm year	RO	unsigned short	2016 - 2250	Year	
			758 Alarm month-day	RO	unsigned short	01.01 - 12.31	Month and day	0x020C => Feb12
			759 Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes	0x0805 => 8:05
			760 Alarm seconds	RO	unsigned char	0 - 59	Seconds	
		Alarm 30	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	0x020C => Feb12
			764 Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes	0x0805 => 8:05
			765 Alarm seconds	RO	unsigned char	0 - 59	Seconds	
		Alarm 32	766 Alarm code	RO	unsigned char	1 - 127 F alarms, 129 - 255 W alarms		0x02 => 2F (MSb = 0), 0x82 => 2W (MSb = 1)
			767 Alarm year	RO	unsigned short	2016 - 2250	Year	
			768 Alarm month-day	RO	unsigned short	01.01 - 12.31	Month and day	0x020C => Feb12
			769 Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes	0x0805 => 8:05
			770 Alarm seconds	RO	unsigned char	0 - 59	Seconds	
		Alarm 33	771 Alarm code	RO	unsigned char	1 - 127 F alarms, 129 - 255 W alarms		0x02 => 2F (MSb = 0), 0x82 => 2W (MSb = 1)
			772 Alarm year	RO	unsigned short	2016 - 2250	Year	
			773 Alarm month-day	RO	unsigned short	01.01 - 12.31	Month and day	0x020C => Feb12
			774 Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes	0x0805 => 8:05
			775 Alarm seconds	RO	unsigned char	0 - 59	Seconds	
		Alarm 34	776 Alarm code	RO	unsigned char	1 - 127 F alarms, 129 - 255 W alarms		0x02 => 2F (MSb = 0), 0x82 => 2W (MSb = 1)
			777 Alarm year	RO	unsigned short	2016 - 2250	Year	
			778 Alarm month-day	RO	unsigned short	01.01 - 12.31	Month and day	0x020C => Feb12
			779 Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes	0x0805 => 8:05
			780 Alarm seconds	RO	unsigned char	0 - 59	Seconds	
		Alarm 35	781 Alarm code	RO	unsigned char	1 - 127 F alarms, 129 - 255 W alarms		0x02 => 2F (MSb = 0), 0x82 => 2W (MSb = 1)
			782 Alarm year	RO	unsigned short	2016 - 2250	Year	
			783 Alarm month-day	RO	unsigned short	01.01 - 12.31	Month and day	0x020C => Feb12
			784 Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes	0x0805 => 8:05
			785 Alarm seconds	RO	unsigned char	0 - 59	Seconds	
		Alarm 36	786 Alarm code	RO	unsigned char	1 - 127 F alarms, 129 - 255 W alarms		0x02 => 2F (MSb = 0), 0x82 => 2W (MSb = 1)
			787 Alarm year	RO	unsigned short	2016 - 2250	Year	
			788 Alarm month-day	RO	unsigned short	01.01 - 12.31	Month and day	0x020C => Feb12
			789 Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes	0x0805 => 8:05
			790 Alarm seconds	RO	unsigned char	0 - 59	Seconds	
		Alarm 37	791 Alarm code	RO	unsigned char	1 - 127 F alarms, 129 - 255 W alarms		0x02 => 2F (MSb = 0), 0x82 => 2W (MSb = 1)
			792 Alarm year	RO	unsigned short	2016 - 2250	Year	
			793 Alarm month-day	RO	unsigned short	01.01 - 12.31	Month and day	0x020C => Feb12
			794 Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes	0x0805 => 8:05
			795 Alarm seconds	RO	unsigned char	0 - 59	Seconds	
		Alarm 38	796 Alarm code	RO	unsigned char	1 - 127 F alarms, 129 - 255 W alarms		0x02 => 2F (MSb = 0), 0x82 => 2W (MSb = 1)
			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	

Group	Subgroups	Register number	Register name	Data			Values and Units	Examples and comments
				Access	Type	Range		
Alarms	Alarms history	Alarm 38	797 Alarm year	RO	unsigned short	2016 - 2250	Year	
			798 Alarm month-day	RO	unsigned short	01.01 - 12.31	Month and day	0x020C => Feb12
			799 Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes	0x0805 => 8:05
			800 Alarm seconds	RO	unsigned char	0 - 59	Seconds	
		Alarm 39	801 Alarm code	RO	unsigned char	1 - 127 F alarms, 129 - 255 W alarms		0x02 => 2F (MSb = 0), 0x82 => 2W (MSb = 1)
			802 Alarm year	RO	unsigned short	2016 - 2250	Year	
			803 Alarm month-day	RO	unsigned short	01.01 - 12.31	Month and day	0x020C => Feb12
			804 Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes	0x0805 => 8:05
			805 Alarm seconds	RO	unsigned char	0 - 59	Seconds	
		Alarm 40	806 Alarm code	RO	unsigned char	1 - 127 F alarms, 129 - 255 W alarms		0x02 => 2F (MSb = 0), 0x82 => 2W (MSb = 1)
			807 Alarm year	RO	unsigned short	2016 - 2250	Year	
			808 Alarm month-day	RO	unsigned short	01.01 - 12.31	Month and day	0x020C => Feb12
			809 Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes	0x0805 => 8:05
			810 Alarm seconds	RO	unsigned char	0 - 59	Seconds	
		Alarm 41	811 Alarm code	RO	unsigned char	1 - 127 F alarms, 129 - 255 W alarms		0x02 => 2F (MSb = 0), 0x82 => 2W (MSb = 1)
			812 Alarm year	RO	unsigned short	2016 - 2250	Year	
			813 Alarm month-day	RO	unsigned short	01.01 - 12.31	Month and day	0x020C => Feb12
			814 Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes	0x0805 => 8:05
			815 Alarm seconds	RO	unsigned char	0 - 59	Seconds	
		Alarm 42	816 Alarm code	RO	unsigned char	1 - 127 F alarms, 129 - 255 W alarms		0x02 => 2F (MSb = 0), 0x82 => 2W (MSb = 1)
			817 Alarm year	RO	unsigned short	2016 - 2250	Year	
			818 Alarm month-day	RO	unsigned short	01.01 - 12.31	Month and day	0x020C => Feb12
			819 Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes	0x0805 => 8:05
			820 Alarm seconds	RO	unsigned char	0 - 59	Seconds	
		Alarm 43	821 Alarm code	RO	unsigned char	1 - 127 F alarms, 129 - 255 W alarms		0x02 => 2F (MSb = 0), 0x82 => 2W (MSb = 1)
			822 Alarm year	RO	unsigned short	2016 - 2250	Year	
			823 Alarm month-day	RO	unsigned short	01.01 - 12.31	Month and day	0x020C => Feb12
			824 Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes	0x0805 => 8:05
			825 Alarm seconds	RO	unsigned char	0 - 59	Seconds	
		Alarm 44	826 Alarm code	RO	unsigned char	1 - 127 F alarms, 129 - 255 W alarms		0x02 => 2F (MSb = 0), 0x82 => 2W (MSb = 1)
			827 Alarm year	RO	unsigned short	2016 - 2250	Year	
			828 Alarm month-day	RO	unsigned short	01.01 - 12.31	Month and day	0x020C => Feb12
			829 Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes	0x0805 => 8:05
			830 Alarm seconds	RO	unsigned char	0 - 59	Seconds	
		Alarm 45	831 Alarm code	RO	unsigned char	1 - 127 F alarms, 129 - 255 W alarms		0x02 => 2F (MSb = 0), 0x82 => 2W (MSb = 1)
			832 Alarm year	RO	unsigned short	2016 - 2250	Year	
			833 Alarm month-day	RO	unsigned short	01.01 - 12.31	Month and day	0x020C => Feb12
			834 Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes	0x0805 => 8:05

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

Group	Subgroups	Register number	Register name	Data			Values and Units	Examples and comments
				Access	Type	Range		
Monitoring	Detailed information	901	Heating/cooling config	RO	unsigned char	0 - 7	Electric heater => 0 bit, Water cooler/heater => 1 bit, DX unit => 2 bit	
		902	Supply temperature	RO	signed short	-500 - 1200	x10 C	
		903	Extract Temperature	RO	signed short	-500 - 1200	x10 C	
		904	Outdoor temp	RO	signed short	-500 - 1200	x10 C	
		905	Water temperature	RO	signed short	-500 - 1200	x10 C	
		906-907	Current supply flow	RO	unsigned int	0 - 200000	m3/h, l/s	
		908-909	Current extract flow	RO	unsigned int	0 - 200000	m3/h, l/s	
		910	Current supply fan intensity	RO	unsigned short	0 - 1000	x10 %	
		911	Current extract fan intensity	RO	unsigned short	0 - 1000	x10 %	
		912	Heat exchanger	RO	unsigned short	0 - 1000	x10 %	
		913	Electric heater	RO	unsigned short	0 - 1000	x10 %	
		914	Water heater	RO	unsigned short	0 - 1000	x10 %	
		915	Water cooler	RO	unsigned short	0 - 1000	x10 %	
		916	DX unit	RO	signed short	-1000 - +1000	x10 %	
		917	Filters Impurity	RO	unsigned char	0 - 100	%	
		918	Air dampers	RO	unsigned char	0 - 100	%	
		919	Supply pressure	RO	unsigned short	0 - 1000	Pa	
		920	Extract pressure	RO	unsigned short	0 - 1000	Pa	
		952	Air quality or humidity (sensor 1 - B8)	RO	unsigned short	0 - 65535	ppm,%	
		953	Air quality or humidity (sensor 2 - B9)	RO	unsigned short	0 - 65535	ppm,%	
		955	Heat exchanger type	RO	unsigned char	0 - 1	Plate = 0, Rotary = 1	
	Efficiency status	921	Power consumption	RO	unsigned short	0 - 65535	W	
		922	Heater power	RO	unsigned short	0 - 65535	W	
		923	Heat exchanger recovery	RO	unsigned short	0 - 65535	W	
		924	Heat exchanger efficiency	RO	unsigned char	0 - 100	%	
		925	Energy saving	RO	unsigned char	0 - 100	%	
		926	SPI	RO	unsigned short	0 - 65535	W/(m3/h)	
	Consumption	927-928	AHU consumption, Day	RO	unsigned int	0 - 4294967296	Wh	
		929-930	AHU consumption, Month	RO	unsigned int	0 - 4294967296	Wh	
		931-932	AHU consumption, Total	RO	unsigned int	0 - 4294967296	Wh	
		933-934	Add. air heater consumption, Day	RO	unsigned int	0 - 4294967296	Wh	
		935-936	Add. air heater consumption, Month	RO	unsigned int	0 - 4294967296	Wh	
		937-938	Add. air heater consumption, Total	RO	unsigned int	0 - 4294967296	Wh	
		939-940	Recovered energy, Day	RO	unsigned int	0 - 4294967296	Wh	
		941-942	Recovered energy, Month	RO	unsigned int	0 - 4294967296	Wh	
		943-944	Recovered energy, Total	RO	unsigned int	0 - 4294967296	Wh	
		945	SPI per day	RO	unsigned short	0 - 65535	W/(m3/h)	
	Panel	946	Panel 1 temperature	RO	signed short	-500 - 1200	x10 C	
		947	Panel 1 humidity	RO	signed char	0 - 100	%	
		948	Panel 1 air quality	RO	unsigned short	0 - 65535	ppm, ppb	
		949	Panel 2 temperature	RO	signed short	-500 - 1200	x10 C	
		950	Panel 2 humidity	RO	signed char	0 - 100	%	
		951	Panel 2 air quality	RO	unsigned short	0 - 65535	ppm, ppb	
		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	
		1000-1001	Firmware version	RO	unsigned int	1 - 4294967295	1st number 8bit <<24, 2nd number 4bit <<20, 3rd number 8bit <<12, 4th number 12bit<<0	18886660 => 1.2.3.4
		1002-1003	Panel 1 firmware version	RO	unsigned int	1 - 4294967295	1st number 8bit <<24, 2nd number 4bit <<20, 3rd number 8bit <<12, 4th number 12bit<<0	18886660 => 1.2.3.4
		1004-1005	Panel 2 firmware version	RO	unsigned int	1 - 4294967295	1st number 8bit <<24, 2nd number 4bit <<20, 3rd number 8bit <<12, 4th number 12bit<<0	18886660 => 1.2.3.4
		1050	Reset settings	R/W	unsigned short	0 - 11	Reset Away settings = 1, Reset Normal settings = 2, Reset Intensive settings = 3, Reset Boost settings = 4, Reset Holidays settings = 5, Reset Override settings = 6, Reset Kitchen settings = 7, Reset Fireplace settings = 8, Reset Air quality settings = 9, Reset Eco settings = 10, Reset Advanced settings = 11	
		1051	Clean filters calibration	R/W	unsigned char	1	Confirm = 1	Resets filters counter, if filter clogging is more than 1%

UAB KOMFOVENT

SERVICE AND SUPPORT

Phone: +370 5 200 8000
service@komfovent.com

Komfovent AB

Ögärdesvägen 12B
433 30 Partille, Sverige
Phone: +46 31 487 752
info_se@komfovent.com
www.komfovent.se

Komfovent Oy

Muuntotie 1 C1
FI-01 510 VANTAA
Phone: +358 20 730 6190
toimisto@komfovent.com
www.komfovent.com

Komfovent GmbH

Konrad-Zuse-Str. 2a, 42551 Velbert,
Deutschland
Phone: +49 0 2051 6051180
info@komfovent.de
www.komfovent.de

SIA Komfovent

Bukaišu iela 1, LV-1004 Rīga
Phone: +371 24 664433
info@komfovent.lv
www.komfovent.lv

Vidzemes filiāle

Alejas iela 12A, LV-4219 Valmiermuiža,
Valmieras pagasts, Burtnieku novads
Phone: +371 29 358 145
kristaps.zaicevs@komfovent.com
www.komfovent.lv

www.komfovent.com

PARTNERS

AT	J. PICHLER Gesellschaft m. b. H.	www.pichlerluft.at
BE	Ventilair group	www.ventilairgroup.com
	ACB Airconditioning	www.acbairco.be
CZ	REKUVENT s.r.o.	www.rekuvent.cz
CH	WESCO AG	www.wesco.ch
	SUDCLIMATAIR SA	www.sudclimatair.ch
CH / LI	CLIMAIR GmbH	www.climair.ch
	Trivent AG	www.trivent.com
DK	Øland A/S	www.oeland.dk
EE	BVT Partners	www.bvtpartners.ee
FR	ATIB	www.atib.fr
HR	Microclima	www.microclima.hr
HU	AIRVENT Légtechnikai Zrt.	www.airvent.hu
	Gevent Magyarország Kft.	www.gevent.hu
	Merkapt	www.merkapt.hu
IR	Fantech Ventilation Ltd	www.fantech.ie
IS	Blikk & Tækniþjónustan ehf	www.bogt.is
	Hitataekni ehf	www.hitataekni.is
IT	Icaria srl	www.icariavmc.it
NL	DECIPO-L-Vortvent	www.vortvent.nl
NO	Ventilution AS	www.ventilution.no
	Ventistål AS	www.ventistal.no
	Thermo Control AS	www.thermocontrol.no
PL	Ventia Sp. z o.o.	www.ventia.pl
SE	Nordisk Ventilator AB	www.nordiskventilator.se
SI	Agregat d.o.o	www.agregat.si
SK	TZB produkt, s.r.o.	www.tzbprodukt.sk



Buitendijks 63, 3356 LX Papendrecht
Tel: +31(0)85-782 64 00
Email: info@vortvent.nl

komfovent®