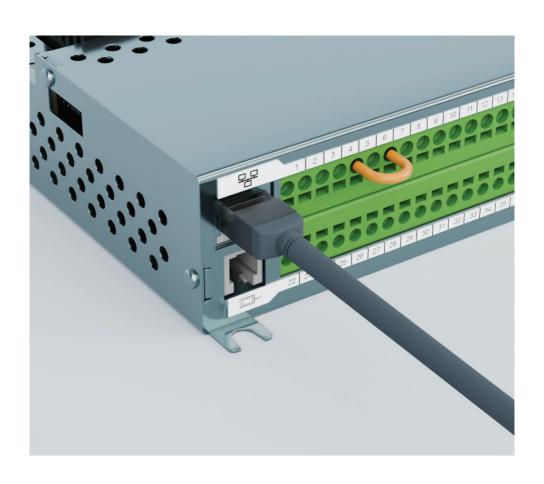
# DESCRIPTION OF C8 CONTROLLER MODBUS







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

C8 controller supports **Modbus RTU** and **Modbus TCP** protocols. Both protocols are using main commands to read and preset registers. Supported Modbus commands are presented in Table 1.



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

**Table 1. Supported Modbus commands** 

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

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

Table 2. Default settings of RS485 interface

Baudrate	19200
Word length	8
Parity	EVEN
Stop bits	1



Fig. 1. Website login window

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

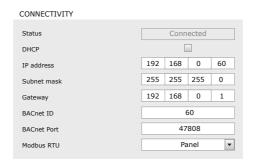


Fig. 2. Connectivity settings

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

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

If your device is connected directly to C8 controller, make sure, that your DHCP server is disabled and your static IP is in same subnet. If you are using PC and Windows operating system, go to "Local Area Connection Properties", go to "Internet Protocol Version 4 (TCP/IPv4) Properties" (Fig. 3), check "Use the following IP address" and type your static parameters, for example:

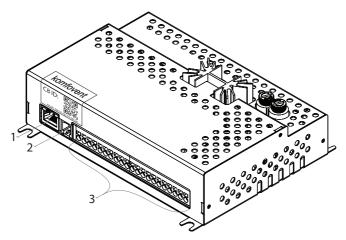
IP address: 192.168.0.61;Subnet Mask: 255.255.255.0;Default gateway: 192.168.0.1.

Internet Protocol Version 4 (TCP/IPv4) Properties You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings. Obtain an IP address automatically Use the following IP address: IP address: 192 . 168 . 0 . 61 Subnet mask: 255 . 255 . 255 . 0 Default gateway: 192 . 168 . 0 . 1 Obtain DNS server address automatically O Use the following DNS server addresses: Preferred DNS server: Alternate DNS server: Validate settings upon exit Ad<u>v</u>anced... OK Cancel

Fig. 3. Personal computer static IP address configuration



The air handling unit has external connection terminals in the control box, inside the air handling unit. Modbus A and B communication wires can be connected to 1 and 2 terminals of connection for external elements (Fig. 4, Fig. 5). To connect devices use twisted pair cable. Maximum cable length is 150 m. C8 controller ground point (any GND terminal from connection too external elements – 4, 7, 10, 12) and other device should be connected together, if distance between the RS-485 interfaces is more than 10 m. (Fig. 4, Fig. 5).



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

Fig. 4. Controller with the connection terminals

1	Α	Modbus RTU	RS485
2	В	MIOGDGO TETO	185
3	+24V		
4	GND	Air quality sensor / Humidity sensor	B8
5	010V	,	
6	+24V	Water mixing valve actuator /	⊳
7	GND	DX control	AOUT
8	010V	Frost protection	
9	NTC	Supply air	В1
10	GND	temperature sensor	
11	NTC	Return water	B5
12	GND	temperature sensor	5
13	С	General	
14	NC	Fire alarm	밀
15	NO	Priority	
16	С	General	_
17	NO	Heating	DOUT
18	NO	Cooling	Ā
19	2		
20	~230V	Air damper actuators Max 15W	FG1
21	N	WIGH TOW	

Fig. 5. Connection diagram for external elements

**Modbus TCP** protocol works via Ethernet interface, connection is provided to RJ-45 socket on the C8 controller (Fig. 4). Default IP address is 192.168.0.60, and port is 502. To connect C8 controller via Modbus TCP make sure, that proxy servers or firewall isn't blocking device destination IP address and 502 port is opened. Controller IP address can be changed using the website (Fig. 2). Instructions how to connect and login to website was presented at Modbus RTU section. IP address and subnet mask also can be changed using C6.1 touch panel. To find these settings click touch C6.1 panel screen, click "Menu" button, click "Settings" button and don't release it, for more than 5 seconds, after that "Advanced settings" window will pop-up. Click "Connectivity" button and here you will find IP address and subnet mask (Fig. 6). If you want to change one of these parameters, just click on it and edit.

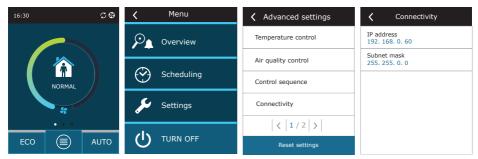
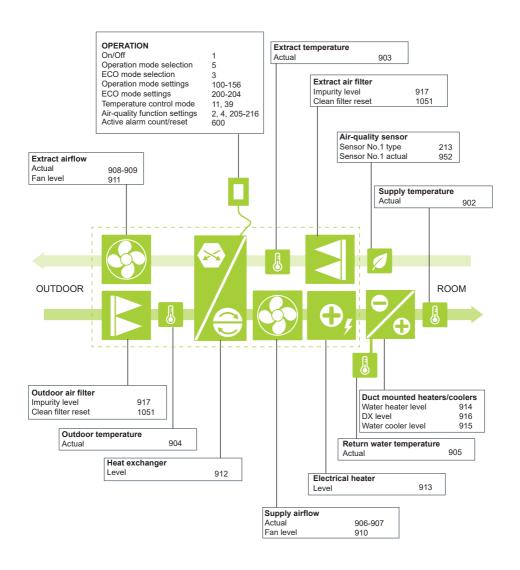


Fig. 6. C6.1 touch panel connectivity settings

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

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





#### Table 3

		Register			Data			Examples						
Group	Subgroups	number	Register name	Access	Туре	Range	Values and Units	and comments						
		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							
	Modes	5	Current mode	R/W	unsigned char	0-10	READ ONLY:  Stanby = 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							
Main control	-	7	Next mode	RO	unsigned char	0 - 8	Standby = 0, Away = 1, Normal = 2, Intensive = 3, Boost = 4, Kitchen = 5, Fireplace = 6, Overide = 7, Holidays = 8							
	Temperature control	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							
		11	Temperature control	R/W	unsigned char	0 -3	Supply = 0, Extract = 1, Balance = 2, Room = 3							
		Temp	Tempe	Temp	Tempo	Tempe	Temp	Temp	39	Room sensor	R/W	unsigned char	0 - 1	Panel temperature(1) = 0, Panel temperature(2) = 1



. 1		Register			Data		1	Examples
Group	Subgroups	number	Register name	Access	Туре	Range	Values and Units	and comments
		19	Stage 1	R/W	unsigned char	0 - 3	None = 0, External coil = 1, Electric heater = 2, External Dx unit = 3,	
	uance	20	Stage 2	R/W	unsigned char	0 - 3	None = 0, External coil = 1, Electric heater = 2, External Dx unit = 3,	
	Control sequance	22	Coil type	R/W	unsigned char	0 - 1	Hot water = 0, Cold water = 1, Combi = 2,	
	Ü	40	Icing protection	R/W	unsigned char	0 - 2	Off = 0, On = 1, External coil = 2	Only for plate heat exchanger
		41	Indoor humidity	R/W	unsigned char	-1; 10 - 90	Auto = -1, Manual = 10-90%RH	Only for plate heat exchanger
		43	Allow dehumidify with Dx	R/W	unsigned char	0-1	Off = 0, On = 1,	
		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	
ntrol	Connectivity	25-26	Mask	R/W	unsigned int		default 255.255.255.0	
Main control	nnec	36-37	Gateway	R/W	unsigned int		default 192.168.0.1	
Mai	S	38	BACnet ID	R/W	unsigned int	0 - 4194303	default 60	
		44	Bacnet Port	R/W	unsigned short	1-65535	default 47808	
	sbu	27	Language	R/W	unsigned char	0-255	English = 0, Lithuanian = 1, Russian = 2,	
	Settings	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
	Ð	31	Month/Day	R/W	unsigned short	MSB 0x01 - 0x0C, LSB 0x01 - 0x1F	MSB - month, LSB - day	0x020C => Feb12
	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 - 2051222400	based on seconds since stand- ard epoch of 1/1/1970	1456329600 => 2016.02.24 16:00:00
		100-101	Supply flow	R/W	unsigned int	0 - 200000	%	
	>	102-103	Extract flow	R/W	unsigned int	0 - 200000	%	
	Away	104	Setpoint	R/W	signed short	50 - 400	x10 C	
		105	Heating	R/W	unsigned char	0 - 1	Off = 0, On = 1	
		159	Humidity setpoint	R/W	unsigned char	RH: 10-90	%	
SE		106-107	Supply flow	R/W	unsigned int	0 - 200000	%	
tting	lar	108-109	Extract flow	R/W	unsigned int	0 - 200000	%	
Mode settings	Normal	110	Setpoint	R/W	signed short	50 - 400	x10 C	
Mo		111	Heating	R/W	unsigned char	0 - 1	Off = 0, On = 1	
		160	Humidity setpoint	R/W	unsigned char	RH: 10-90	%	
		112-113	Supply flow	R/W	unsigned int	0 - 200000	%	
	sive	114-115	Extract flow	R/W	unsigned int	0 - 200000	%	
	Intensive	116	Setpoint	R/W	signed short	50 - 400	x10 C	
	_	117	Heating	R/W	unsigned char	0 - 1	Off = 0, On = 1	
		161	Humidity setpoint	R/W	unsigned char	RH: 10-90	%	

		Register	Ì		Data			Examples
Group	Subgroups	number	Register name	Access	Туре	Range	Values and Units	and comments
		118-119	Supply flow	R/W	unsigned int	0 - 200000	%	
		120-121	Extract flow	R/W	unsigned int	0 - 200000	%	
	Boost	122	Setpoint	R/W	signed short	50 - 400	x10 C	
	ш	123	Heating	R/W	unsigned char	0 - 1	Off = 0, On = 1	
		162	Humidity setpoint	R/W	unsigned char	RH: 10-90	%	
		124-125	Supply flow	R/W	unsigned int	0 - 200000	%	
	E	126-127	Extract flow	R/W	unsigned int	0 - 200000	%	
	Kitchen	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	
		131-132	Supply flow	R/W	unsigned int	0 - 200000	%	
	lce	133-134	Extract flow	R/W	unsigned int	0 - 200000	%	
	Fireplace	135	Setpoint	R/W	signed short	50 - 400	x10 C	
	Ē	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	%	
		140-141	Extract flow	R/W	unsigned int	0 - 200000	%	
ngs		142	Setpoint	R/W	signed short	50 - 400	x10 C	
setti	Overide	143	Heating	R/W	unsigned char	0 - 1	Off = 0, On = 1	
Mode settings		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	
	lays	149-150	From Day/Month	R/W	unsigned int	1483228800 - 2051222400	based on seconds since stand- ard epoch of 1/1/1970	1456329600 => 2016.02.24 16:00:00
	Holidays	151-152	Till Day/Month	R/W	unsigned int	1483228800 - 2051222400	based on seconds since stand- ard epoch of 1/1/1970	1456329600 => 2016.02.24 16:00:00
		153	Year, from	R/W	unsigned short	2017 - 2035		
		154	Month/Day, from	R/W	unsigned short	MSB 0x01 - 0x0C, LSB 0x01 - 0x1F	MSB = month, LSB = day	0x020C => Feb12
		155	Year, till	R/W	unsigned short	2017 - 2035		
		156	Month/Day, till	R/W	unsigned short	MSB 0x01 - 0x0C, LSB 0x01 - 0x1F	MSB = month, LSB = day	0x020C => Feb12
		200	Minimum supply air temperature	R/W	unsigned short	50 - 400	x10 C	
	Eco	201	Maximum supply air temperature	R/W	unsigned short	50 - 400	x10 C	
Eco		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	Non stop recuperation	R/W	unsigned char	0 - 1	Off = 0, On = 1	



				Register			Data			Examples	
iroup	Sı	ıbgro	ups	number	Register name	Access	Туре	Range	Values and Units	and comments	
				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 intensivity	R/W	unsigned char	0, 20 - 100	%		
Air quality		Air quality		210	Air quality maximum intensivity	R/W	unsigned char	0, 20 - 100	%		
Air		Ä		211	Air quality heating	R/W	unsigned char	0 - 1	Off = 0, On = 1		
				212	Air quality check period	R/W	unsigned char	1 - 24	Hours		
				213	Air quality sensor type B8	R/W	unsigned char	0 - 3	None = 0, CO2 = 1, VOC = 2, RH = 3		
				215	Humidity control	R/W	unsigned char	0-1	Disabled = 0, Enabled = 1		
				216	Outdoor humidity	R/W	unsigned char	0-2	None = 0, Sensor = 1		
			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	Event 2	304	Mode	R/W	unsigned char	0 - 4	Standby = 0, Away = 1, Normal = 2, Intensive = 3, Boost = 4	
		E		305	Start time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05	
ler	ome ome	ogra		306	Stop time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05	
Schedule	Stay at home	Operation program 1	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		
			ш	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	

_	T.			Register			Data			Examples					
Group	Si	ubgro	ups	number	Register name	Access	Туре	Range	Values and Units	and comments					
			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	317	Mode	R/W	unsigned char	0 - 4	Standby = 0, Away = 1, Normal =2, Intensive =3, Boost = 4						
	H			318	Start time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05					
	Ш			319	Stop time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05					
			Event 2	vent 2	320	Mode	R/W	unsigned char	0 - 4	Standby = 0, Away = 1, Normal = 2, Intensive = 3, Boost = 4					
	Ιİ	am 2		321	Start time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05					
		rogr		322	Stop time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05					
		Operation program 2	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					
Scheduler	Stay at home		Event 4	326	Mode	R/W	unsigned char	0 - 4	Standby = 0, Away = 1, Normal = 2, Intensive = 3, Boost = 4						
Š	Stay		Event 5 Ev		327	Start time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05				
	H									328	Stop time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes
				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					
			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						
		Operation program 3	Event 1	333	Mode	R/W	unsigned char	0 - 4	Standby = 0, Away = 1, Normal = 2, Intensive = 3, Boost = 4						
		ation	Ш	334	Start time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05					
		Oper		335	Stop time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05					
		3	Event 2	336	Mode	R/W	unsigned char	0 - 4	Standby = 0, Away = 1, Normal = 2, Intensive = 3, Boost = 4						
			- E	Ē	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					



				Register	Dominton none		Data			Values and Units	Examples		
iroup	51	ubgro	ups	number	Register name	Access	Туре		Range	Values and Units	and comments		
			Event 3	339	Mode	R/W	unsigned char			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		
		Operation program 3	Event 4	342	Mode	R/W	unsigned char	0 - 4		Standby = 0, Away = 1, Normal =2, Intensive =3, Boost = 4			
		erat		343	Start time	R/W	unsigned short	0:00	23:59	MSB - hours, LSB - minutes	0x0805 => 8:05		
		Ö		344	Stop time	R/W	unsigned short	0:00	23:59	MSB - hours, LSB - minutes	0x0805 => 8:05		
			Event 5	345	Mode	R/W	unsigned char	0 - 4		Standby = 0, Away = 1, Normal =2, Intensive =3, Boost = 4			
			_	346	Start time	R/W	unsigned short	0:00	23:59	MSB - hours, LSB - minutes	0x0805 => 8:05		
				347	Stop time	R/W	unsigned short	0:00	23:59	MSB - hours, LSB - minutes	0x0805 => 8:05		
			Weekday mask	348	Weekday mask	R/W	unsigned char		000000- 111111	Mo => 0 bit, Tu => 1 bit, We => 2 bit, Th => 3 bit, Fr => 4 bit, Sa => 5 bit, Su => 6 bit			
Scheduler	Stay at home		Event 1	349	Mode	R/W	unsigned char	0 - 4		Standby = 0, Away = 1, Normal = 2, Intensive = 3, Boost = 4			
Sch	Stay			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	Event 2	Event 2	352	Mode	R/W	unsigned char	0 - 4		Standby = 0, Away = 1, Normal =2, Intensive =3, Boost = 4	
		am 4		353	Start time	R/W	unsigned short	0:00	23:59	MSB - hours, LSB - minutes	0x0805 => 8:05		
		rogr		354	Stop time	R/W	unsigned short	0:00	23:59	MSB - hours, LSB - minutes	0x0805 => 8:05		
		Operation program 4	Event 3	355	Mode	R/W	unsigned char	0-4		Standby = 0, Away = 1, Normal =2, Intensive =3, Boost = 4			
				356	Start time	R/W	unsigned short	0:00	23:59	MSB - hours, LSB - minutes	0x0805 => 8:05		
				357	Stop time	R/W	unsigned short	0:00	23:59	MSB - hours, LSB - minutes	0x0805 => 8:05		
			Event 4	358	Mode	R/W	unsigned char	0 - 4		Standby = 0, Away = 1, Normal =2, Intensive =3, Boost = 4			
				359	Start time	R/W	unsigned short	0:00	23:59	MSB - hours, LSB - minutes	0x0805 => 8:05		
				360	Stop time	R/W	unsigned short	0:00	23:59	MSB - hours, LSB - minutes	0x0805 => 8:05		
			Event 5	361	Mode	R/W	unsigned char	0 - 4		Standby = 0, Away = 1, Normal = 2, Intensive = 3, Boost = 4			
			Eve	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		

	_	.h.		Register	Do wint		Data		Malara 111 11	Examples				
roup	Sı	ubgro	ups	number	Register name	Access	Туре	Range	Values and Units	and comment				
			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					
		am 1		369	Start time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05				
		rogr		370	Stop time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05				
		Operation program 1	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				
			Event 5 Event 4	373	Stop time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05				
scneduler	Working week			374	Mode	R/W	unsigned char	0 - 4	Standby = 0, Away = 1, Normal =2, Intensive =3, Boost = 4					
รี	Wor				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				
			Weekday mask	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				
		Operation program 2	Event 1	381	Mode	R/W	unsigned char	0 - 4	Standby = 0, Away = 1, Normal = 2, Intensive = 3, Boost = 4					
		ratio	ш	382	Start time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05				
		Ope		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				



iroup	Ĺ.			Register	Ba wieten warmen		Data			Values and Units	Examples
iroup	31	ıbgro	ups	number	Register name	Access	Туре		Range	values and Units	and comments
			Event 3	387	Mode	R/W	unsigned char		22.50	Standby = 0, Away = 1, Normal = 2, Intensive = 3, Boost = 4	0.0005 . 0.05
					Start time		unsigned short			MSB - hours, LSB - minutes	0x0805 => 8:05
		Operation program 2	Event 4	389	Stop time Mode	R/W	unsigned short unsigned char		- 23:59	MSB - hours, LSB - minutes  Standby = 0, Away = 1, Normal = 2, Intensive = 3, Boost = 4	0x0805 => 8:05
		erat		391	Start time	R/W	unsigned short	0:00	23:59	MSB - hours, LSB - minutes	0x0805 => 8:05
		o		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		000000- 1111111	Mo => 0 bit, Tu => 1 bit, We => 2 bit, Th => 3 bit, Fr => 4 bit, Sa => 5 bit, Su => 6 bit	
Scheduler	Working week		Event 1	397	Mode	R/W	unsigned char	0 - 4		Standby = 0, Away = 1, Normal = 2, Intensive = 3, Boost = 4	
Sch	Nork			398	Start time	R/W	unsigned short	0:00	23:59	MSB - hours, LSB - minutes	0x0805 => 8:05
				399	Stop time	R/W	unsigned short	0:00	23:59	MSB - hours, LSB - minutes	0x0805 => 8:05
			Event 2	400	Mode	R/W	unsigned char	0 - 4		Standby = 0, Away = 1, Normal =2, Intensive =3, Boost = 4	
		am 3		401	Start time	R/W	unsigned short	0:00	23:59	MSB - hours, LSB - minutes	0x0805 => 8:05
		rogr		402	Stop time	R/W	unsigned short	0:00	23:59	MSB - hours, LSB - minutes	0x0805 => 8:05
		Operation program 3	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

	_	ub c::		Register	Dowlet		Data		Value d H-/a	Examples			
iroup	Si	ubgro	ups	number	Register name	Access	Туре	Range	Values and Units	and comments			
			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				
	_	am 4		417	Start time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05			
	wee	rogr		418	Stop time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05			
	Working week	Operation program 4	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			
Scheduler			Event 4	422	Mode	R/W	unsigned char	0 - 4	Standby = 0, Away = 1, Normal =2, Intensive =3, Boost = 4				
S				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			
			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				
	Office	Operation program 1	Event 1	429	Mode	R/W	unsigned char	0 - 4	Standby = 0, Away = 1, Normal = 2, Intensive = 3, Boost = 4				
	0	ration		430	Start time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05			
		Ope		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				
			Ē	۵ _	ů.	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			



				Register	Bowleton no		Data			Values and Units	Examples
roup	51	ubgro	ups	number	Register name	Access	Туре		Range	Values and Units	and comment
			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
		Operation program 1	Event 4	438	Mode	R/W	unsigned char	0 - 4		Standby = 0, Away = 1, Normal =2, Intensive =3, Boost = 4	
		erat		439	Start time	R/W	unsigned short	0:00 -	23:59	MSB - hours, LSB - minutes	0x0805 => 8:05
		o		440	Stop time	R/W	unsigned short	0:00 -	23:59	MSB - hours, LSB - minutes	0x0805 => 8:05
			Event 5	441	Mode	R/W	unsigned char	0 - 4		Standby = 0, Away = 1, Normal = 2, Intensive = 3, Boost = 4	
				442	Start time	R/W	unsigned short	0:00 -	23:59	MSB - hours, LSB - minutes	0x0805 => 8:05
				443	Stop time	R/W	unsigned short	0:00	23:59	MSB - hours, LSB - minutes	0x0805 => 8:05
			Weekday mask	444	Weekday mask	R/W	unsigned char		000000- 111111	Mo => 0 bit, Tu => 1 bit, We => 2 bit, Th => 3 bit, Fr => 4 bit, Sa => 5 bit, Su => 6 bit	
Scheduler	Office		Event 1	445	Mode	R/W	unsigned char	0 - 4		Standby = 0, Away = 1, Normal = 2, Intensive = 3, Boost = 4	
SCF				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	
		am 2		449	Start time	R/W	unsigned short	0:00 -	23:59	MSB - hours, LSB - minutes	0x0805 => 8:05
		rogr		450	Stop time	R/W	unsigned short	0:00 -	23:59	MSB - hours, LSB - minutes	0x0805 => 8:05
		Operation program 2	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

		.h.		Register	Do wint		Data		Walter 111 to	Examples		
roup	Si	ubgro	ups	number	Register name	Access	Туре	Range	Values and Units	and comment		
			Weekday mask	460	Weekday mask	R/W	unsigned char	0b00000000- 0b01111111	Mo => 0 bit, Tu => 1 bit, We => 2 bit, Th => 3 bit, Fr => 4 bit, Sa => 5 bit, Su => 6 bit			
			Event 1	461	Mode	R/W	unsigned char	0 - 4	Standby = 0, Away = 1, Normal =2, Intensive =3, Boost = 4			
			_	462	Start time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05		
				463	Stop time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05		
			Event 2	464	Mode	R/W	unsigned char	0 - 4	Standby = 0, Away = 1, Normal = 2, Intensive = 3, Boost = 4			
		am 3		465	Start time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05		
		rogra		466	Stop time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05		
		Operation program 3	Event 3	467	Mode	R/W	unsigned char	0 - 4	Standby = 0, Away = 1, Normal = 2, Intensive = 3, Boost = 4			
			Event 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		
Scheduler	Office			Event 4	470	Mode	R/W	unsigned char	0 - 4	Standby = 0, Away = 1, Normal =2, Intensive =3, Boost = 4		
3				471	Start time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05		
				472	Stop time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05		
			Event 5	473	Mode	R/W	unsigned char	0 - 4	Standby = 0, Away = 1, Normal =2, Intensive =3, Boost = 4			
			_	474	Start time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05		
				475	Stop time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05		
	-		Weekday mask	Weekday mask		476	Weekday mask	R/W	unsigned char	0b0000000- 0b01111111	Mo => 0 bit, Tu => 1 bit, We => 2 bit, Th => 3 bit, Fr => 4 bit, Sa => 5 bit, Su => 6 bit	
		Operation program 4	Event 1	477	Mode	R/W	unsigned char	0 - 4	Standby = 0, Away = 1, Normal = 2, Intensive = 3, Boost = 4			
		ratio		478	Start time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05		
		Ope		479	Stop time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05		
			Event 2	480	Mode	R/W	unsigned char	0 - 4	Standby = 0, Away = 1, Normal = 2, Intensive = 3, Boost = 4			
				481	Start time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05		
				482	Stop time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05		



				Register			Data			Examples				
roup	Si	ubgro	ups	number	Register name	Access	Type	Range	Values and Units	and comment				
			Event 3	483	Mode	R/W	unsigned char	0-4	Standby = 0, Away = 1, Normal = 2, Intensive = 3, Boost = 4	0.0005 . 0.05				
				484	Start time	R/W	unsigned short		MSB - hours, LSB - minutes	0x0805 => 8:05				
	Office	Operation program 4	Event 4	485	Stop time Mode	R/W	unsigned short unsigned char		MSB - hours, LSB - minutes  Standby = 0, Away = 1, Normal = 2, Intensive = 3, Boost = 4	0x0805 => 8:05				
		erat		487	Start time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05				
		Ö		488	Stop time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05				
			Event 5	489	Mode	R/W	unsigned char	0 - 4	Standby = 0, Away = 1, Normal = 2, Intensive = 3, Boost = 4					
			=	490	Start time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05				
				491	Stop time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05				
			Weekday mask	492	Weekday mask	R/W	unsigned char	0b00000000 - 0b01111111	Mo => 0 bit, $Tu \Rightarrow 1$ bit, $We \Rightarrow 2$ bit, $Th \Rightarrow 3$ bit, $Fr \Rightarrow 4$ bit, $Sa \Rightarrow 5$ bit, $Su \Rightarrow 6$ bit					
ociledulei			Event 1 W	Event 1	493	Mode	R/W	unsigned char	0 - 4	Standby = 0, Away = 1, Normal =2, Intensive =3, Boost = 4				
200				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	Event 2	Event 2	496	Mode	R/W	unsigned char	0 - 4	Standby = 0, Away = 1, Normal =2, Intensive =3, Boost = 4			
		m 1	-	497	Start time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05				
	E	rogra		498	Stop time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05				
	Custom Operation program 1	Operation p		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				

	_	.h		Register	Baulatan and		Data		V-1	Examples
iroup	Si	ubgro	ups	number	Register name	Access	Туре	Range	Values and Units	and comments
			Weekday mask	508	Weekday mask	R/W	unsigned char	0b00000000- 0b01111111	Mo => 0 bit, Tu => 1 bit, We => 2 bit, Th => 3 bit, Fr => 4 bit, Sa => 5 bit, Su => 6 bit	
			Event 1	509	Mode	R/W	unsigned char	0 - 4	Standby = 0, Away = 1, Normal = 2, Intensive = 3, Boost = 4	
				510	Start time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05
				511	Stop time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05
			Event 2	512	Mode	R/W	unsigned char	0 - 4	Standby = 0, Away = 1, Normal = 2, Intensive = 3, Boost = 4	
		am 2	ш	513	Start time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05
		rogr		514	Stop time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05
		Operation program 2	Event 3	515	Mode	R/W	unsigned char	0 - 4	Standby = 0, Away = 1, Normal = 2, Intensive = 3, Boost = 4	
				516	Start time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05
				517	Stop time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05
Scheduler	Custom		Event 4	518	Mode	R/W	unsigned char	0 - 4	Standby = 0, Away = 1, Normal = 2, Intensive = 3, Boost = 4	
S				519	Start time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05
				520	Stop time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05
			Event 5	521	Mode	R/W	unsigned char	0 - 4	Standby = 0, Away = 1, Normal = 2, Intensive = 3, Boost = 4	
				522	Start time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05
				523	Stop time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05
			Weekday mask	524	Weekday mask	R/W	unsigned char	0b0000000- 0b01111111	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 1	525	Mode	R/W	unsigned char	0 - 4	Standby = 0, Away = 1, Normal = 2, Intensive = 3, Boost = 4	
		ation	Ш	526	Start time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05
		Oper		527	Stop time	R/W	unsigned short	0:00 - 23:59	MSB - hours, LSB - minutes	0x0805 => 8:05
		0	Event 2	528	Mode	R/W	unsigned char	0 - 4	Standby = 0, Away = 1, Normal = 2, Intensive = 3, Boost = 4	
			ш	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



iroup	Γ.			Register	Domistov nome		Data			Values and Units	Examples
iroup	31	ubgro	ups	number	Register name	Access	Туре		Range	values and Units	and comments
			Event 3	531	Mode	R/W	unsigned char			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
		Operation program 3	Event 4	534	Mode	R/W	unsigned char	0 - 4		Standby = 0, Away = 1, Normal =2, Intensive =3, Boost = 4	
		erat		535	Start time	R/W	unsigned short	0:00 -	23:59	MSB - hours, LSB - minutes	0x0805 => 8:05
		g		536	Stop time	R/W	unsigned short	0:00	23:59	MSB - hours, LSB - minutes	0x0805 => 8:05
			Event 5	537	Mode	R/W	unsigned char	0 - 4		Standby = 0, Away = 1, Normal = 2, Intensive = 3, Boost = 4	
				538	Start time	R/W	unsigned short	0:00	23:59	MSB - hours, LSB - minutes	0x0805 => 8:05
				539	Stop time	R/W	unsigned short	0:00 -	23:59	MSB - hours, LSB - minutes	0x0805 => 8:05
			Weekday mask	540	Weekday mask	R/W	unsigned char	0b00 0b01	000000- 111111	Mo => 0 bit, Tu => 1 bit, We => 2 bit, Th => 3 bit, Fr => 4 bit, Sa => 5 bit, Su => 6 bit	
Scheduler	Custom		Event 1	541	Mode	R/W	unsigned char	0 - 4		Standby = 0, Away = 1, Normal = 2, Intensive = 3, Boost = 4	
Sch	٥			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	
		am 4		545	Start time	R/W	unsigned short	0:00	23:59	MSB - hours, LSB - minutes	0x0805 => 8:05
		rogra		546	Stop time	R/W	unsigned short	0:00	23:59	MSB - hours, LSB - minutes	0x0805 => 8:05
		Operation program 4	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

_			Register			Data			Examples	
iroup	Subgro	ups	number	Register name	Access	Туре	Range	Values and Units	and comments	
			600	Active alarms count	R/W	unsigned char	0 - 10		Writing 0x99C6 - Active alarms reset and restore previous mode	
			601	Active alarm 1 code (newest)	RO	unsigned char	1 - 127 F alarms, 129 - 255 W alarms		0x02 => 2F (MSb = 0), 0x82 => 2W (MSb = 1)	
			602	Active alarm 2 code	RO	unsigned char	1 - 127 F alarms, 129 - 255 W alarms		0x02 => 2F (MSb = 0), 0x82 => 2W (MSb = 1)	
			603	Active alarm 3 code	RO	unsigned char	1 - 127 F alarms, 129 - 255 W alarms		0x02 => 2F (MSb = 0), 0x82 => 2W (MSb = 1)	
			604	Active alarm 4 code	RO	unsigned char	1 - 127 F alarms, 129 - 255 W alarms		0x02 => 2F (MSb = 0), 0x82 => 2W (MSb = 1)	
	Active alarms		605	Active alarm 5 code	RO	unsigned char	1 - 127 F alarms, 129 - 255 W alarms		0x02 => 2F (MSb = 0), 0x82 => 2W (MSb = 1)	
	ě		606	Active alarm 6 code	RO	unsigned char	1 - 127 F alarms, 129 - 255 W alarms		0x02 => 2F (MSb = 0), 0x82 => 2W (MSb = 1)	
51			607	Active alarm 7 code	RO	unsigned char	1 - 127 F alarms, 129 - 255 W alarms		0x02 => 2F (MSb = 0), 0x82 => 2W (MSb = 1)	
Alarms		,	608	Active alarm 8 code	RO	unsigned char	1 - 127 F alarms, 129 - 255 W alarms		0x02 => 2F (MSb = 0), 0x82 => 2W (MSb = 1)	
					609	Active alarm 9 code	RO	unsigned char	1 - 127 F alarms, 129 - 255 W alarms	
			610	Active alarm 10 code	RO	unsigned char	1 - 127 F alarms, 129 - 255 W alarms		0x02 => 2F (MSb = 0), 0x82 => 2W (MSb = 1)	
			611	Alarm history count	RO	unsigned char	0 - 50			
			612	Alarm (newest) year	RO	unsigned short	2016 - 2250	Year		
			613	Alarm (newest) month-day	RO	unsigned short	01.01 - 12.31	Month and day	0x020C => Feb12	
		Alarm 1	614	Alarm (newest) time	RO	unsigned short	0:00 - 23:59	Hours and minutes	0x0805 => 8:05	
		Ala	615	Alarm (newest) seconds	RO	unsigned char	0 - 59	Seconds		
	Alarms history		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	
		2 ر	619	Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes	0x0805 => 8:05	
		Alarm 2	620	Alarm seconds	RO	unsigned char	0 - 59	Seconds		
		ď	621	Alarm code	RO	unsigned char	1 - 127 F alarms, 129 - 255 W alarms		0x02 => 2F (MSb = 0), 0x82 => 2W (MSb = 1)	



roup	E.u.t		Register	Donist		Data		Values and Units	Examples
roup	Subgro	ups	number	Register name	Access	Туре	Range	Values and Units	and comments
			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
		m m	624	Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes	0x0805 => 8:05
		Alarm 3	625	Alarm seconds	RO	unsigned char	0 - 59	Seconds	
		IA	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
		4	629	Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes	0x0805 => 8:05
		Alarm 4	630	Alarm seconds	RO	unsigned char	0 - 59	Seconds	
		Al	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
		2	634	Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes	0x0805 => 8:05
		Alarm	635	Alarm seconds	RO	unsigned char	0 - 59	Seconds	
		Ali	636	Alarm code	RO	unsigned char	1 - 127 F alarms, 129 - 255 W alarms		0x02 => 2F (MSb = 0), 0x82 => 2W (MSb = 1)
	ĺ		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
S	stor)	9 u	639	Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes	0x0805 => 8:05
Alarms	s his	Alarm 6	640	Alarm seconds	RO	unsigned char	0 - 59	Seconds	
A	Alarms history	IA	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
		7	644	Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes	0x0805 => 8:05
		Alarm 7	645	Alarm seconds	RO	unsigned char	0 - 59	Seconds	
		A	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
		80	649	Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes	0x0805 => 8:05
		Alarm	650	Alarm seconds	RO	unsigned char	0 - 59	Seconds	
		V	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
		6	654	Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes	0x0805 => 8:05
		larm	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)

			Register			Data			Examples	
roup	Subgro	ups	number	Register name	Access	Туре	Range	Values and Units	and comments	
			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	
		10	659	Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes	0x0805 => 8:05	
		Alarm 1	660	Alarm seconds	RO	unsigned char	0 - 59	Seconds		
		Ala	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	
		Alarm	665	Alarm seconds	RO	unsigned char	0 - 59	Seconds		
		AB	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	
		12	669	Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes	0x0805 => 8:05	
		Alarm 1	670	Alarm seconds	RO	unsigned char	0 - 59	Seconds		
		Ala	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		
	2	113	13	673	Alarm month-day	RO	unsigned short	01.01 - 12.31	Month and day	0x020C => Feb12
,	story		674	Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes	0x0805 => 8:05	
Alarms	s his	Alarm '	675	Alarm seconds	RO	unsigned char	0 - 59	Seconds		
A	Alarms history	Ala	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	
		41	679	Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes	0x0805 => 8:05	
		Alarm	680	Alarm seconds	RO	unsigned char	0 - 59	Seconds		
		AI≅	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	
		15	684	Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes	0x0805 => 8:05	
		Alarm '	685	Alarm seconds	RO	unsigned char	0 - 59	Seconds		
		AI	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	
		16	689	Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes	0x0805 => 8:05	
		Alarm	690	Alarm seconds	RO	unsigned char	0 - 59	Seconds		
		AIĕ	691	Alarm code	RO	unsigned char	1 - 127 F alarms, 129 - 255 W alarms		0x02 => 2F (MSb = 0), 0x82 => 2W (MSb = 1)	



roup	C!		Register	Dowlet		Data		Values and Units	Examples
roup	Subgro	ups	number	Register name	Access	Туре	Range	Values and Units	and comments
			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
		17	694	Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes	0x0805 => 8:05
		Alarm `	695	Alarm seconds	RO	unsigned char	0 - 59	Seconds	
		Ala	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
		18	699	Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes	0x0805 => 8:05
		Alarm `	700	Alarm seconds	RO	unsigned char	0 - 59	Seconds	
		Ali	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
		19	704	Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes	0x0805 => 8:05
		Alarm	705	Alarm seconds	RO	unsigned char	0 - 59	Seconds	
		Alk	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
S	story	50	709	Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes	0x0805 => 8:05
Alarms	is hi:	Alarm 20	710	Alarm seconds	RO	unsigned char	0 - 59	Seconds	
¥	Alarms history	Alk	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
		21	714	Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes	0x0805 => 8:05
		Alarm	715	Alarm seconds	RO	unsigned char	0 - 59	Seconds	
		N AI	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
		22	719	Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes	0x0805 => 8:05
		Alarm.	720	Alarm seconds	RO	unsigned char	0 - 59	Seconds	
		A	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
		23	724	Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes	0x0805 => 8:05
		arm	725	Alarm seconds	RO	unsigned char	0 - 59	Seconds	
		Alarm	726	Alarm code	RO	unsigned char	1 - 127 F alarms, 129 - 255 W alarms		0x02 => 2F (MSb = 0), 0x82 => 2W (MSb = 1)

			Register			Data			Examples
roup	Subgro	ups	number	Register name	Access	Туре	Range	Values and Units	and comments
Ì			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
		24	729	Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes	0x0805 => 8:05
		Alarm 2	730	Alarm seconds	RO	unsigned char	0 - 59	Seconds	
		Ala	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
		25	734	Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes	0x0805 => 8:05
		Alarm	735	Alarm seconds	RO	unsigned char	0 - 59	Seconds	
		Alā	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
		26	739	Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes	0x0805 => 8:05
		Alarm 2	740	Alarm seconds	RO	unsigned char	0 - 59	Seconds	
		AI≀	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
S	stor)	27	744	Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes	0x0805 => 8:05
Alarms	il shi	Alarm 27	745	Alarm seconds	RO	unsigned char	0 - 59	Seconds	
¥	Alarms history	NA!	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
		28	749	Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes	0x0805 => 8:05
		Alarm	750	Alarm seconds	RO	unsigned char	0 - 59	Seconds	
		Ala	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
		29	754	Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes	0x0805 => 8:05
		Alarm	755	Alarm seconds	RO	unsigned char	0 - 59	Seconds	
		Al	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
		30	759	Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes	0x0805 => 8:05
		Alarm 3	760	Alarm seconds	RO	unsigned char	0 - 59	Seconds	
		Alè	761	Alarm code	RO	unsigned char	1 - 127 F alarms, 129 - 255 W alarms		0x02 => 2F (MSb = 0), 0x82 => 2W (MSb = 1)



	Cb.		Register	Danistan		Data		Walana and Ha 's	Examples
iroup	Subgro	ups	number	Register name	Access	Type	Range	Values and Units	and comments
			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
		Alarm 31	765	Alarm seconds	RO	unsigned char	0 - 59	Seconds	
		Ala	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
		32	769	Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes	0x0805 => 8:05
		Alarm 32	770	Alarm seconds	RO	unsigned char	0 - 59	Seconds	
		Ala	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
		33	774	Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes	0x0805 => 8:05
		Alarm 33	775	Alarm seconds	RO	unsigned char	0 - 59	Seconds	
		Ala	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
s	stor)	n 34	779	Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes	0x0805 => 8:05
Alarms	s his	Alarm 3	780	Alarm seconds	RO	unsigned char	0 - 59	Seconds	
A	Alarms history	₹IV	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
		35	784	Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes	0x0805 => 8:05
		Alarm 35	785	Alarm seconds	RO	unsigned char	0 - 59	Seconds	
		AI	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
		36	789	Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes	0x0805 => 8:05
		Alarm 36	790	Alarm seconds	RO	unsigned char	0 - 59	Seconds	
		Al	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
		37	794	Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes	0x0805 => 8:05
		Alarm 37	795	Alarm seconds	RO	unsigned char	0 - 59	Seconds	
		AI≀	796	Alarm code	RO	unsigned char	1 - 127 F alarms, 129 - 255 W alarms		0x02 => 2F (MSb = 0), 0x82 => 2W (MSb = 1)

			Register			Data			Examples	
roup	Subgro	ups	number	Register name	Access	Туре	Range	Values and Units	and comments	
			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	
		38	799	Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes	0x0805 => 8:05	
		Alarm 3	800	Alarm seconds	RO	unsigned char	0 - 59	Seconds		
		Alk	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	
		39	804	Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes	0x0805 => 8:05	
		Alarm	805	Alarm seconds	RO	unsigned char	0 - 59	Seconds		
		Al	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	
		9	809	Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes	0x0805 => 8:05	
		Alarm 40	810	Alarm seconds	RO	unsigned char	0 - 59	Seconds		
		AI₹	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		
	۲۲	141	14	813	Alarm month-day	RO	unsigned short	01.01 - 12.31	Month and day	0x020C => Feb12
,	stor)		814	Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes	0x0805 => 8:05	
Aldrins	is hi	Alarm 41	815	Alarm seconds	RO	unsigned char	0 - 59	Seconds		
₹	Alarms history	Ak	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	
		42	819	Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes	0x0805 => 8:05	
		Alarm,	820	Alarm seconds	RO	unsigned char	0 - 59	Seconds		
		AI≅	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	
		43	824	Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes	0x0805 => 8:05	
		Alarm	825	Alarm seconds	RO	unsigned char	0 - 59	Seconds		
		A	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	
		4	829	Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes	0x0805 => 8:05	
		Alarm	830	Alarm seconds	RO	unsigned char	0 - 59	Seconds		
		Al	831	Alarm code	RO	unsigned char	1 - 127 F alarms, 129 - 255 W alarms		0x02 => 2F (MSb = 0), 0x82 => 2W (MSb = 1)	



	up Subgroups		Register	1	Data				Examples
iroup			number	Register name	Access	Туре	Range	Values and Units	and comments
			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
		45	834	Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes	0x0805 => 8:05
		Alarm 45	835	Alarm seconds	RO	unsigned char	0 - 59	Seconds	
		AI	836	Alarm code	RO	unsigned char	1 - 127 F alarms, 129 - 255 W alarms		0x02 => 2F (MSb = 0), 0x82 => 2W (MSb = 1)
			837	Alarm year	RO	unsigned short	2016 - 2250	Year	
			838	Alarm month-day	RO	unsigned short	01.01 - 12.31	Month and day	0x020C => Feb12
		46	839	Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes	0x0805 => 8:05
		Alarm 46	840	Alarm seconds	RO	unsigned char	0 - 59	Seconds	
		Alā	841	Alarm code	RO	unsigned char	1 - 127 F alarms, 129 - 255 W alarms		0x02 => 2F (MSb = 0), 0x82 => 2W (MSb = 1)
			842	Alarm year	RO	unsigned short	2016 - 2250	Year	
			843	Alarm month-day	RO	unsigned short	01.01 - 12.31	Month and day	0x020C => Feb12
		47	844	Alarm time	RO	unsigned short	0:00 - 23:59	Hours and minutes	0x0805 => 8:05
		Alarm 47	845	Alarm seconds	RO	unsigned char	0 - 59	Seconds	
ms	Alarms history	Ala	846	Alarm code	RO	unsigned char	1 - 127 F alarms, 129 - 255 W alarms		0x02 => 2F (MSb = 0), 0x82 => 2W (MSb = 1)
Alarms	ıms	Alarm 48	847	Alarm year	RO	unsigned short	2016 - 2250	Year	
	Ala		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, Heatingbenied => 6 bit, Coolingbenied => 7 bit, FlowDown => 8 bit, FreeHeating => 9 bit, FreeCooling => 10 bit, AlarmH => 11 bit, AlarmW => 12 bit	

	Subgroups	Register number			Data			Evamulas
iroup			Register name	Access			Values and Units	Examples and comments
		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	30000=>B1 sensor not used
		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	
	c	910	Current supply fan intensivity	RO	unsigned short	0 - 1000	x10 %	
	Detailed information	911	Current extract fan intensivity	RO	unsigned short	0 - 1000	x10 %	
	Jinfe	912	Heat exchanger	RO	unsigned short	0 - 1000	x10 %	
	ailec	913	Electric heater	RO	unsigned short	0 - 1000	x10 %	
	Det	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 Imupurity	RO	unsigned char	0 - 100	%	
		918	Air dampers	RO	unsigned char	0 - 100	%	
		952	Air quality or humidity (sensor 1 - B8)	RO	unsigned short	0 - 65535	ppm,%	
		956	Indoor humidity	RO	unsigned short	AH: -2 - 10000	sensor fail - 2, sensor not found - 1, AHU is off - 0, value 1 - 10000 x100 g/m3	561 = > 5.61 g/m3
Monitoring		957	Outdoor humidity	RO	unsigned short	AH: -2 - 10000	sensor fail - 2, sensor not found - 1, AHU is off - 0, value 1 - 10000 x100 g/m3	1305 = > 13.05 g/m
Mon		927-928	Supply fan, Day	RO	unsigned int	0 - 4294967296	h	
		929-930	Supply fan, Month	RO	unsigned int	0 - 4294967296	h	
		931-932	Supply fan, Total	RO	unsigned int	0 - 4294967296	h	
	Ø	933-934	Exhaust fan, Day	RO	unsigned int	0 - 4294967296	h	
	nter	935-936	Exhaust fan, Month	RO	unsigned int	0 - 4294967296	h	
	Operation counters	937-938	Exhaust fan, Total	RO	unsigned int	0 - 4294967296	h	
		939-940	Electric heater, Day	RO	unsigned int	0 - 4294967296	h	
		941-942	Electric heater, Month	RO	unsigned int	0 - 4294967296	h	
		943-944	Electric heater, Total	RO	unsigned int	0 - 4294967296	h	
		961-962	Heat exchanger, Day	RO	unsigned int	0 - 4294967296	h	
		963-964	Heat exchanger, Month	RO	unsigned int	0 - 4294967296	h	
-		965-966	Heat exchanger, Total	RO	unsigned int	0 - 4294967296	h	
	Panel	946	Panel 1 temperature	RO	signed short	-500 - 1200, -32768 - panel not connected	x10 C	
		947	Panel 1 humidity	RO	signed char	0 - 100, -100 - panel not connected	%	
		948	Panel 1 air quality	RO	unsigned short	0 - 65535	ppm, ppb	
		949	Panel 2 temperature	RO	signed short	-500 - 1200, -32768 - panel not connected	x10 C	
		950	Panel 2 humidity	RO	signed char	0 - 100, -100 - panel not connected	%	
		951	Panel 2 air quality	RO	unsigned short	0 - 65535	ppm, ppb	
		954	Connected panels	RO	unsigned char	0 - 3	None = 0, Panel(1) = 1, Panel(2) = 2, Panel(1) and Panel(2) = 3	



Group	Subgroups	Register number	Register name	Data			Values and Units	Examples
Group				Access	Туре	Range	values and Onits	and comments
	DOUT	959	Heating	RO	unsigned char	0 - 1	Off = 0, On = 1	
		960	Cooling	RO	unsigned char	0 - 1	Off = 0, On = 1	
		1000-1001	Firmware version	RO	unsigned int	1 - 4294967295	"1st number 4bit <<28, 2nd number 4bit <<24, 3rd number 4bit <<20, 4th number 8bit <<12, 5th number 12bit<<0"	18886660 => 2.1.2.3.4
		1002-1003 Panel 1 firmware versio	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
Others		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%

#### Alarm codes (registers 600-861)

Code		Text	Message		
Hex	Dec	- CAC	inessage		
03	3	F3	Water Temp B5 To Low		
04	4	F4	Low Supply Air Temperature		
05	5	F5	High Supply Air Temperature		
06	6	F6	Electric Heater Overheat		
07	7	F7	Heat Exchanger Failure		
08	8	F8	Heat Exchanger Icing		
09	9	F9	Internal Fire		
0A	10	F10	External Fire		
OB	11	F11	Supply Air Temp B1 Short		
0C	12	F12	Supply Air Temp B1 Not Connected		
0D	13	F13	Extract Air Temp B2 Short		
0E	14	F14	Extract Air Temp B2 Not Connected		
0F	15	F15	Outdoor Air Temp B3 Short		
10	16	F16	Outdoor Air Temp B3 Not Connected		
13	19	F19	Water Temp B5 Short		
14	20	F20	Water Temp B5 Not Connected		
15	21	F21	Supply Temp After Hx B10 (B14) Short		

Code			Manage			
Hex	Dec	Text	Message			
16	22	F22	Supply Temp After Hx B10 (B14) Not Connected			
17	23	F23	Flash Fail			
18	24	F24	Too Low 24V Supply Voltage			
19	25	F25	Too High 24V Supply Voltage			
1A	26	F26	24V Supply Voltage Overloaded			
1C	28	F28	Room Temperature Sensor Fail			
1D	29	F29	Room Humidity Sensor Fail			
1E	30	F30	Humidity sensor failure			
1F	31	F31	Impurity sensor failure			
28	40	F40	Communication error			
29	41	F41	Fire dampers failure			
2A	42	F42	Fire damper failure			
2B	43	F43	Fire damper failure			
2C	44	F44	Fire damper failure			
2D	45	F45	Fire damper failure			
2E	46	F46	External fire alarm			
2F	47	F47	External fire alarm			
30	48	F48	External fire alarm			
31	49	F49	External fire alarm			
32	50	F50	External fire alarm			
33	51	F51	Electric heater failure			
81	129	W1	Change Air Filter			
82	130	W2	Service Mode			
83	131	W3	Water Temp BS To Low (Warning)			
84	132	W4	Humidity sensor failure			
85	133	W5	Impurity sensor failure			
86	134	W6	Low heat exchanger efficiency			
			ı			

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