FC221-2AO3DO RS485 Modbus

Datasheet

Subject to technical alteration Issue date: 20.08.2019



Application

The fancoil room controller has been designed for individual control of temperature in commercial, industrial and residential buildings. It is tailored for two-pipe fan coil with two-wire electric valves and has 2 analogue outputs 0..10 V (heating and cooling) and 3 relay outputs for controlling a 3-stage fan. A 6-way valve can also be used. With its flush mounted modern design the device combines digital technology with a large LCD display and additional buttons, which enables the single room controller to be used intuitively.

Security Advice - Caution



The installation and assembly of electrical equipment should only be performed by authorized personnel.



The product should only be used for the intended application. Unauthorised modifications are prohibited! The product must not be used in relation with any equipment that in case of a failure may threaten, directly or indirectly, human health or life or result in danger to human beings, animals or assets. Ensure all power is disconnected before installing. Do not connect to live/operating equipment.

CAUTION! Risk of electric shock due to live components within the enclosure, especially devices with mains voltage supply (usually between 90..265 V).

Please comply with

- Local laws, health & safety regulations, technical standards and regulations
- Condition of the device at the time of installation, to ensure safe installation
- This data sheet and installation manual

As a component of a large-scale fixed installation, Thermokon products are intended to be used permanently as part of a building or a structure at a pre-defined and dedicated location, hence the Waste Electrical and Electronic

Remarks to Room Sensors

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Location and Accuracy of Room Sensors

The room sensor should be mounted in a suitable location for measuring accurate room temperature. The accuracy of the temperature measurement also depends directly on the temperature dynamics of the wall. It is important, that the back plate is completely flush to the wall so that there is sufficient circulation of air through the vents in the cover, otherwise, deviations in temperature measurement will occur due to uncontrolled air circulation. The temperature sensor should not be covered by furniture or other objects. Mounting next to doors (due to draught) or windows (due to colder outside wall) should be avoided.

Surface and Flush Mounting

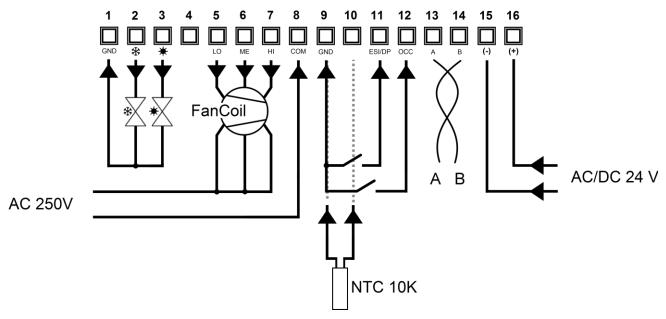
The measuring result is influenced by the thermal characteristics of the wall. A solid concrete wall responds to thermal fluctuations within a room in a much slower than a light-weight structure wall. Room temperature sensors installed in flush-mounted boxes have a longer response time to thermal variations. In extreme cases they detect the radiant heat of the wall even if the air temperature in the room is lower for example. The quicker the dynamics of the wall (temperature acceptance of the wall) or the longer the selected inquiry interval of the temperature sensor is the smaller the deviations limited in time are.

Technical Data

Measuring values	temperature				
Output voltage	terminal 2 3 – 2x 010 V for heating and cooling	terminal 2 3 –			
Output switch contact	terminal 5 6 7 - LO ME HI 3x normally open contact, 250 V loa	d max. 3 A, Fan			
Network technology	RS485 Modbus, RTU, half-duplex, bor odd (1 stopbit)	paud rate 4.800, 9.600, 19.200 or 38.4	400, parity: non (2 stopbits), even		
Power supply	24 V = (±10%) 24 V ~ (±20%) SEL	V			
Power consumption	3 W (24 V =)				
Measuring range temp.	+1+50 °C				
Accuracy temperature	±1 K (typ. at 21 °C)				
Inputs	terminal 10 input for external sensor NTC10K	terminal 11 – ESI DP input digital for floating contact, window contact, dew point sensor	terminal 12 - OCC input digital for floating contact, occupancy sensor, key card switch		
Control functions	set point adjustment +1+50 °C, (de	efault +16+30 °C)			
Display	LCD 64x41 mm, white background I	ighting			
Enclosure	ABS, pure white				
Protection	IP20 according to EN 60529				
Cable entry	rear entry				
Connection electrical	terminal block max. 1,5 mm ²				
Ambient condition	-10+50 °C, max. 95% rH non-cond	-10+50 °C, max. 95% rH non-condensing			
Weight	160 g				
Mounting	flush mounted with standard EU box	(Ø=60 mm)			

Connection Plan

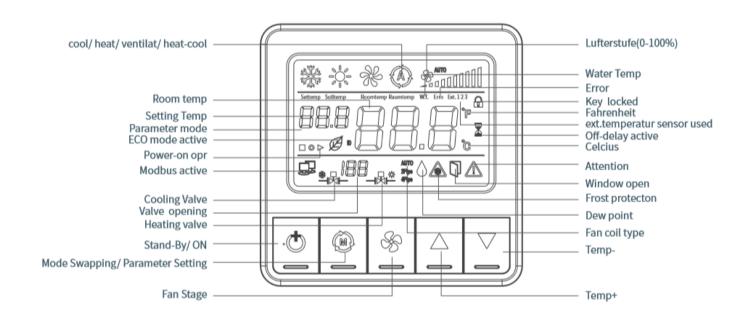
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Controller output signal

		4-pipe (default)	2-pipe	6WV - 6-way valve
Terminal 2	*	Cooling	Heating & Cooling	Heating & Cooling
Terminal 3	*	Heating		

Display Panel



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Function Description

Communication Modbus

Communication-section	1247	
Factory default:	1	
Address 0:	broadcast address	
Communication-Interface:	RS485	
Communication-Protocol:	Modbus-RTU	
Baud Rate:	4800 bps / 9600 bps / 19200 bps / 38400 bps (optional)	
Factory default:	9600 bps	
Parity:	no parity / odd parity / straight parity (optional)	
Factory default:	no parity	
Data:	8 bit	
Stop:	2 bit	

During device start-up the version and type number are displayed on the start screen for a short time.

While the fan coil thermostat is communicating via the bus, the communication symbol starts flashing. If the device does not communicate via the bus, the symbol will be disappear after 10 seconds.

Parameter table

To enter the parameter table, press the "Mode Key for more than 5s. Once the Display comes on, it will prompt for the password (default 987). The password can be entered digit by digit. Each digit can be increased / decreased using the "▲"or "▼" keys. With the "Mode Key" the next digit will be selected.

Each parameter can be increased / decreased using the "▲" or "▼" keys. With the "Mode Key" the display will move on to the next parameter. Once the end of the table is reached the parameter setting will be exited to normal operation.

No.	Name of parameter	Parameter definition	Factory default
1	Modbus address	ID.1- ID.247	1
2	Baud rate	1:4800bps,2:9600,3:19200,4:38400	2
3	Parity	0:none, 1:odd 2:even	0
4	Stop Bits	1 = 1 Stopbit; 2, = 2 Stopbits	2
5	Temperature Offset Internal Sensor	-5,0 K+5,0 K	0
6	Temperature Offset External Sensor	-5,0 K+5,0 K	0
7	Screensaver mode	0= display all status 1=room temperature and clock 2=display ,room temperature 3=display clock	0
8	7day4periods programmable	0=deactivated 1=activated	0
9	Timer on/off	0=deactivated 1=activated	0
10	passwords	0999	987
11	Reset to Factory Settings	Setting Parameter to 1 and press the Mode Key resets the device to factory settings. Device stays in Parameter menu for Modbus configuration	0
12	Infrared receiver	Infrared receiver IR 0=deactivated 1=activated	0

The Fancoil controller is designed for fan coil units with 2- or 4-pipe systems for heating and cooling. The selection of the fan coil system has to be done via the parameter No. 7.

PI-controller 0..10 V

The manipulated variable is output as a proportional control signal. The type of valve used is set via the configuration registers.

6WV

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With register address 304, a 6-way valve can also be selected as valve type. You can choose from 2..10 V / 2..10 V INV (Belimo), 0..10 V DN15 / DN15 INV, DN20 / DN20 INV (Sauter).

Operating mode

Press the "Mode Key" , to adjust the mode cyclically (Cooling > Ventilating > Auto mode > Heating ...).

In 2-pipe configuration not available modes (depending on the change-over sensor's signal) will be skipped. In this case the user can select the available modes only.

Standby / ECO / ON

The Power-Button switches the device from Stand-by to ON. In Standby the display is off, but the control loop is actively monitoring the temperature and will activate the heating output if the room temperature drops below the frost protection threshold.

Pressing the button once switches the display on and the device to ECO mode. In ECO mode it controls the room temperature to the setpoint predefined by register 275 and 276 (0x0113, 0x0114). The display will show the average of both ECO Setpoint and the leaf symbol to indicate the ECO mode. In ECO mode the setpoint is fixed and the device does not react to any button pressed by the user besides pressing the Stand-by /ECO/ON button a 2nd time. Then it will switch from ECO to comfort mode. To indicate that the Fancoil thermostat is in ECO mode it will show the leaf and the word ECO in the display.

In case an occupancy sensor is connected to one of the inputs the mode will change from ECO to Comfort as soon as the input becomes active and the previously used Setpoint will be restored and the leaf symbol will not be showing any more.

Temperature sensor input - temperature limiter and external sensor

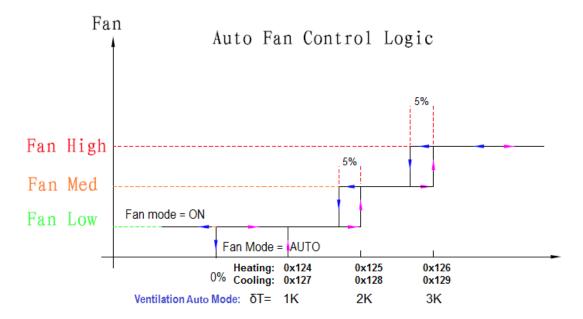
The temperature sensor input (address 0x0152) can be used as change over sensor (addresses 0x012B and 0x012C) or as external temperature sensor.

Furthermore, it can also be used to limit the heating temperature (address 0x010A) and cooling temperature (address 0x010B). This is the case for floor heating systems, where the external sensor is embedded in the floor. In case the floor temperature will exceed a certain threshold the heating valve shall be closed to avoid damaging the floor or the pipes embedded in the floor.

Fan control

If the fan is configured to be 1-stage or 2-stage the selection will be adapted accordingly. In "ventilating mode", the valves will be closed. If the fan speed is set to Auto the steps are switched depending on the temperature difference between the setpoint value and the current temperature value.

In auto mode heating or cooling, the fan level is calculated from the output of the PI loop (control variable).



°F/°C selective

Temp display range is 32 °F..99 °F, respectively 0 °C..50 °C (factory default is °C).

Temperature offset correction (Register address 0x0106)

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The internal sensor will be affected by the Thermostat's self-heating. As a consequence it would display a higher room temperature than the average of indoor temperature (real value). Item 5 & 6 of the parameter table does contain the correction of temperature offset (resolution 0,1 °C).

Set the Temperature set point range (Register address 0x0110 – 0x0112)

Press "▲"or "▼" key to adjust the temperature set point range. Factory default (°C) is 16 °C..30 °C, When °F has been selected Temp range is 60 °F..86 °F.

Key lock selection (Register address 0x010D)

If a key is pressed that is locked, the lock symbol appear for 2s and blink 2x but no further action is taken.

Power failure - Restart selection (Register address 0x010C)

On the LCD, there are three symbols that define how the thermostat will restart after a power failure:

Keep thermostat switched OFF

Switch thermostat to last state before power failure (Record and Memorize)

Turn the thermostat ON

Storage during power loss

The status will be kept in EEPROM, while the power failure, so no data will be lost.

The setpoint is not saved. The standard setpoint after power-on reset applies, register address 271 (0x010F).

Occupancy (OCC)

It is configured for an Occupancy sensor. If the sensor indicates "UnOccupied" the current setpoint will be replaced by lode Setpoint Temp. The display will show the leaf symbol and the lettering ECO to indicate the ECO mode. Once the upancy is detected again the previously used Setpoint will be restored and the leaf symbol will not be showing any more.

Window contact (ESI)

If the input is configured as window contact, the "Window open" Symbol will be displayed the thermostat will check every 3 seconds the input whether active. The cooling valve will be closed as long as the input will be active. The rest of the thermostat will work as usual, the user may change the setpoint or the fan stage, but the valve outputs will remain in valve closed position. If configured

the "Window open" or the Dew Point symbol will be flashing. When the input will not be active, the thermostat's outputs return to normal operation and operates the outputs normally.

Sensor failure alarm

In case room NTC temp sensor is open or short, thermostat switches fan to medium and the valve to 50% (5V output, 50%). The display will show (blinking) error code: "E1" Thermostat will allow to control fan manually as well as the valve output using the "▲"or "▼" keys. Every operation of the "▲"or "▼" keys will decrement / increment the output voltage by 1V = 10% AND the PWM by 10%. The percentage is shown in the display.

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Input Register

	Address	Access	Description	Resoluti	on / Unit
0	0x0000	Read-only	Bandary Model identification 0xFF02 = FC221 -2AO3DO		
1	0x0001	Read-only	Firmware-Version e.g. 0x1A20 = 1.10.2.0		
2	0x0002	Read-only	Back-Box type 23 = 2AO3DO		
3	0x0003	Read-only	Value of the integrated temperature sensor °C 0500 -> 050,0°C	0,1	°C
4	0x0004	Read-only	fan status 0x00 = Manual OFF 0x01 = Manual low 0x02 = Manual medium 0x04 = Manual high 0x08 = Auto OFF 0x09 = Auto low 0x0A = Auto medium 0x0C = Auto high		
5	0x0005	Read-only	VA1 status 0-100 0 = 0 (Off)100% (On)		
6	0x0006	Read-only	VA2 status 0-100 0 = 0 (Off)100% (On)		
8	8000x0	Read-only	external temperature sensor °C 200+1000 -> -20,0+100,0°C	0,1	°C
9	0x0009	Read-only	failure status 0x00=no failure 0x01= control loop temperature sensor alarm 0x02=external temperature sensor high limit Alarm 0x04=external temperature sensor low limit Alarm 0x08= change over sensor missing alarm		
10	0x000A	Read-only	External input 1 0 = Contact Open, 1= contact closed (for window contact, dew point sensor)		
11	0x000B	Read-only	External input 2 0 = Contact Open, 1= contact closed (for OCC-sensor, keycard Switch)		

Holding Register

eral set	ttings					
	Address	Access	Description	Resoluti	on / Unit	Defau
256	0x0100	Read-write	Customer set Device location identification 1247	1247		1
257	0x0101	Read-write	LCD Temperature Unit 0=°C 1=°F			0
258	0x0102	Read-write	Beeper Intensity 0=Off 1=Max			1
259	0x0103	Read-write	Backlight intensity operated 0100	1.0	%	80
260	0x0104	Read-write	reserved			0
261	0x0105	Read-write	Backlight operating delay setting 1255 = 1255 seconds ON	1.0	S	15
262	0x0106	Read-write	Internal Sensor Temperature Offset (added to meaured value) -5050 -> -5,05,0°C	0.1	°C	0
263	0x0107	Read-write	external Sensor Temperature Offset (added to meaured value) -5050 -> -5,05,0°C	0.1	°C	0
264	0x0108	Read-write	Display language 0 = English			0
265	0x0109	Read-write	Individual passwords setting 001-999, default=987, 000 = no password			987
266	0x010A	Read-write	External temperature (limiter) sensor high limit (338=3, for limiter) -200+1000 -> -20,0+100,0°C	0.1	°C	40
267	0x010B	Read-write	External temperature (limiter) sensor low limit (338=3, for limiter) -200+1000 -> -20,0+100,0°C	0.1	°C	0
268	0x010C	Read-write	Power failure 0=keep off after power-on-reset 1=return to last state after power failure 2=switch on after power-on-reset			1
269	0x010D	Read-write	Key-lock 0x00=unlocked			0

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			0x01=lock on/off 0x02=lock mode 0x04=lock clock (FC 261 only) 0x08=lock fan speed 0x10=lock temp setting 0x1F=lock all keystrokes Once a locked key is pressed the LOCK symbol shall be displayed and blink twice.	
270	0x010E	Read-write	Display Settings 0b00000001= show Setpoint (if no setpoint is shown the setpoint keys are locked = 0x010D = 0x10=lock temp setting) 0b00000010= show Room temperature 0b0000100 = show valve symbol 0b00001000 = show PI-Loop percentage 0bxxx10000 = show Room temperature from Register 0x207 (if only room temp or setpoint is shown, then in big numbers)	15

Set point settings							
	Address	Access	Description	Resoluti	on / Unit	Default	
271	0x010F	Read-write	Default Setpoint after Power On Reset 0500 -> 050,0°C	0.1	°C	210	
272	0x0110	Read-write	Setpoint temperature lower limit 0500 -> 050,0°C	0.1	°C	160	
273	0x0111	Read-write	Setpoint temperature upper limit 0500 -> 050,0°C	0.1	°C	300	
274	0x0112	Read-write	Setpoint increment/decrement value 1100 -> 0,110,0°C	0.1	°C	5	
275	0x0113	Read-write	ECO mode temperature setpoint cooling 250450 = 25,045,0°C	0.1	°C	300	
276	0x0114	Read-write	ECO mode temperature setpoint heating 120240 = 12,024,0°C	0.1	°C	190	

Pi controller							
	Address	Access	Description	Resolution / Unit	Default		
277	0x0115	Read-only	Controller mode 0b0000 0000=FC221 off (Frost protection active), Comfort Mode 0b0000 0001= controler auto mode (heating&cooling), Comfort Mode 0b0000 0010= controller heating mode only, Comfort Mode 0b0000 0011= controller cooling mode only, Comfort Mode 0b0000 0100= ventilating (PI loop controls fan stages only, valves closed) 0b0001 0000= FC221 off (Frost protection active), ECO Mode 0b0001 0001= controller auto mode (heating&cooling), ECO Mode 0b0001 0010= controller heating mode only, ECO Mode 0b0001 0011= controller cooling mode only, ECO Mode 0b0001 0010= ventilating (PI loop controls fan stages only, valves closed)		1		
278	0x0116	Read-write	Fan coil type 0b00000000= 2-pipe: cooling&heating with Change-Over 0b00000001= 4-pipe: cooling&heating		1		
279	0x0117	Read-write	Fan stages and operation modes 0b00000000 = none, (fan key is locked the fan symbol will be faded on the LCD) 0bxxxx0001 = single stage; 0bxxxx0010 = 2 stages 0bxxxx0011 = 3 stages 0bxxxx1000 = EC Fan 0b0001xxxx = fan works not in heating mode 0b0010xxxx = fan works not in cooling/ventilation mode (0b0011xxxx = fan works not in heating & cooling mode)		3		
280	0x0118	Read-write	Start fan at highest stage for _ seconds 060 -> fan start at highest fan stage for 060s seconds	1.0 s	0		
281	0x0119	Read-write	Fan OFF-Delay	1.0 min	15		

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			0= fan never stops 1255 = Fan stops 1255 minutes after valves closing			
283	0x011B	Read-write	Deadband 1100 -> 0,110,0K	0.1	К	10
284	0x011C	Read-write	Heating Proportional Band Xp_heat 1100 -> 0,110,0°C	0.1	°C	20
285	0x011D	Read-write	Heating Integration Time Tn_heat 0255 = 0255 Minutes	1.0	min	30
286	0x011E	Read-write	Cooling Proportional Band Xp_cool 1100 -> 0,110,0°C	0.1	°C	20
287	0x011F	Read-write	Cooling Integration Time Tn_cool 0255 = 0255 Minutes	1.0	min	30
288	0x0120	Read-write	Minimal limit of the control variable heat 0100	1.0	%	0
289	0x0121	Read-write	Maximal limit of the control variable heat 0100	1.0	%	100
290	0x0122	Read-write	Minimal limit of the control variable cool 0100	1.0	%	0
291	0x0123	Read-write	Maximal limit of the control variable cool 0100	1.0	%	100
292	0x0124	Read-write	Fan stage 1 ON threshold control variable heat 0100	1.0	%	5
293	0x0125	Read-write	Fan stage 2 ON threshold control variable heat 0100	1.0	%	35
294	0x0126	Read-write	Fan stage 3 ON threshold control variable heat 0100	1.0	%	70
295	0x0127	Read-write	Fan stage 1 ON threshold control variable cool 0100	1.0	%	5
296	0x0128	Read-write	Fan stage 2 ON threshold control variable cool 0100	1.0	%	35
297	0x0129	Read-write	Fan stage 3 ON threshold control variable cool 0100	1.0	%	70
298	0x012A	Read-write	Frost protection temperature threshold 50150 -> 5,015,0°C	0.1	°C	70
299	0x012B	Read-write	Change-Over Temperature Threshold for Heating 0500 -> 050,0°C	0.1	°C	300
300	0x012C	Read-write	Change-Over Temperature Threshold for Cooling 0500 -> 050,0°C In case temperature is in between both thresholds the last state will be maintained	0.1	°C	190
304	0x0130	Read-write	Valve type selection 4= proportional (0V = 0%10V = 100%) 5=invers proportional (0V = 100%10V = 0%) 6=proportional Belimo 6 way 7=proportional Sauter 6 way with Ø15mm 8=proportional Sauter 6 way with Ø20mm 9=proportional Belimo 6 way, counter direction 10=proportional Sauter 6 way with Ø15mm, counter direction 11=proportional Sauter 6 way with Ø20mm, counter direction 12=no valve			4

Inputs							
	Address	Access	Description	Resolution / Unit	Default		
336	0x0150	Read-write	Configuration external input 1 0 = No function 1 = Occupancy sensor (Open = Occupied) 2 = Occupancy sensor (Closed = Occupied) 3 = Window contact (Open = Window Open) 4 = Window contact (Closed = Window Open) 5 = Disable heating (Open = Heating disabled) 6 = Disable heating (Closed = Heating Disabled) 7 = Disable cooling (Open = Disable Cooling) 8 = Disable cooling (Closed = Disable Cooling) 9 = Dew Point Sensor (Open = Dewpoint crossed, disable cooling) 10 = Dew Point Sensor (Closed = Dewpoint crossed, disable cooling)		0		
337	0x0151	Read-write	Configuration external input 2 0 = No function 1 = Occupancy sensor (Open = Occupied) 2= Occupancy sensor (Closed = Occupied) 3 = Window contact (Open = Window Open) 4 = Window contact (Closed = Window Open) 5 = Disable heating (Open = Heating disabled) 6 = Disable heating (Closed = Heating Disabled) 7 = Disable cooling (Open = Disable Cooling) 8 = Disable cooling (Closed = Disable Cooling) 9 = Dew Point Sensor (Open = Dewpoint crossed, disable cooling)		0		

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			10 = Dew Point Sensor (Closed = Dewpoint crossed, disable cooling)			
338	0x0152	Read-write	Configuration Sensor Input 0= none 1 = Change Over Temp sensor (NTC10K) 2 = Ext. Temp sensor (NTC10K) 3 = Temperature Limiter			0
339	0x0153	Read-write	ESI (Energy Savings Input) - ON delay ON delay for ESI. Delays Energy stop by n seconds	1.0	S	0
340	0x0154	Read-write	OCC input - OFF delay 065535 -> 065535 seconds	1.0	S	1800

Timer					
	Address	Access	Description	Resolution / Unit	Default
400	0x0190	Read-write	Clock mode configuration 0=Don't show time in LCD 1=show time 12mode 2=show time 24mode		2
401	0x0191	Read-write	Weekday configuration 0=Don't show the weekday in LCD 1=Show the weekday in LCD		1
402	0x0192	Read-write	Automatic Summer/winter time 0=OFF 1=EU automatic (last Sunday in March (+1h) - last Sunday in October (-1h) 2=US automatic (2nd Sunday in March (+1h) - 1st Sunday in November (-1h) 3=AUS automatic (First Sunday in October (+1h) - 1st Sunday in April (-1h) 4=BR aurtomatic (First Sunday in November (+1h) - Third Sunday in February (-1h) 5=CHL automatic (Second Sunday in August (+1h) - Second Sunday May (-1h) 6=ISR (Friday before last Sunday in March + 1h) - Last Sunday in October (-1h) 6=MEX (First Sunday in April (+1h) - Last Sunday in October (-1)		1
403	0x0193	Read-write	7day4periods programmable 0=deactivated 1=activated		0
404	0x0194	Read-write	1 period: Start time hour 0-23h	h	0
405	0x0195	Read-write	1 period :Start time minute 0-59m	min	0
406	0x0196	Read-write	1 period :Start setpoint 0500 -> 050,0°C	°C	210
407	0x0197	Read-write	2 period : start time hour 0-23h	h	0
408	0x0198	Read-write	2 period : start time minute 0-59m	min	0
409	0x0199	Read-write	2 period : start setpoint 0500 -> 050,0°C	°C	210
410	0x019A	Read-write	3 period :start time hour 0-23h	h	0
411	0x019B	Read-write	3 period :start time minute 0-59m	min	0
412	0x019C	Read-write	3 period :start setpoint 0500 -> 050,0°C	°C	210
413	0x019D	Read-write	4 period : start time hour 0-23h	h	0
414	0x019E	Read-write	4 period :start time minute 0-59m	min	0
415	0x019F	Read-write	4 period :start setpoint 0500 -> 050,0°C	°C	210

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416	0x01A0	Read-write	Timer on/off		
410	UXUIAU	Neau-wille	0=deactivated 1=activated		0
417	0x01A1	Read-write	Timer on hour	h	
711	OXOTAT	rtodd wiito	0-23h		0
418	0x01A2	Read-write	Timer on minute	min	
	0,101712	Troug IIII	0-59m		0
419	0x01A3	Read-write	Timer off hour	h	
			0-23h		0
420	0x01A4	Read-write	Timer off minute	min	_
			0-59m		0
464	0x01D0	Read-write	Make next day(s) holiday		
			0bxxx00000= None		
			0bxxx000010bxxx11111 days of holidays (next n- days (starting next 0:00) forces the coming 131 days to be treated as the day specified by the 3 MSB. Does overwrite the calender.		
			0b000xxxxx = use ECO setting		
			0b001xxxxx = set day = Mo		0
			0b010xxxxx = set day = Tu		
			0b011xxxxx = set day = Wed		
			0b100xxxxx = set day = Thu		
			0b101xxxxx = set day = Fr		
			0b110xxxxx = set day = Sat		
			0b111xxxxx = set day = Sun		
496	0x01F0	Read-write	system time—year		2012
			2000-2099		2018
497	0X01F1	Read-write	system time—month		
			1-12		1
498	0X01F2	Read-write	system time—day		
			1-31		1
499	0X01F3	Read-write	system time-hour		
700	OAUT 3	ACCC WITE	00-23		0
500	0X01F4	Read-write	system time-minutes		
500	UAU1F4	reau-wille	00-59		0
F04	070455	Dand			
501	0X01F5	Read-write	system time-seconds		0
			00-59		
Holding Re			ride FC from Modbus)		
	Address	Access	Description	Resolution / Unit	Default

	Address	Access	Description	Resolution / Unit	Default
512	0x0200	Read-write	Active fan speed setting 0 = OFF 1, 2, 3 = Stage 1, 2, 3 4 = Auto / DC-Fan		0
513	0x0201	Read-write	setpoint temperature 0500 -> 050,0°C		0
514	0x0202	Read-write	Controller Mode b0000 0000=FC221off (Frost protection active), Comfort Mode 0b0000 0001= controler auto mode (heating&cooling), Comfort Mode 0b0000 0010= controller heating mode only, Comfort Mode 0b0000 0011= controller cooling mode only, Comfort Mode 0b0000 0100= ventilating (PI loop controls fan stages only, valves closed)		0

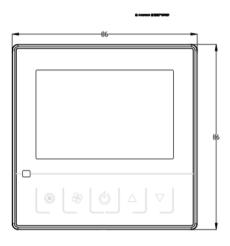
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Mounting advice/ Dimensions (mm)

For installing or maintenance, please make sure the power is disconnected. Fix the thermostat base plate to the wall through the four screw holes with distance between axes of 60 mm. Fasten base plate and front cover. Do not press the panel in order to protect LCD.

1>Display unit:



2>Packback:

