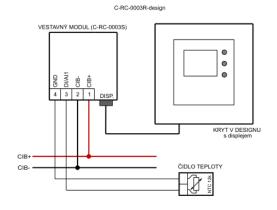
CIB - Module of temperature and humidity measurement and control with LCD

Туре	■ DI	■ RO	■ AI	■ AO	■ Comm
C-RC-0003R-Design	3x button		1x AI/DI 1x temperature 1x humidity		CIB LCD display

Basic features

- The module is designed for interior for the measurement and display of two different values, and the two symbols with text on LCD.
- The resulting function of module is determined by the user program. Module can also be used for other purposes if the set of inputs and outputs complies with the request:
- LCD display with 2 digits to be displayed. Each number has an optional display unit.
- Module has one universal input AI/DI
- The module is equipped with a combined temperature and humidity sensor.
- The module has 3 buttons for user setting the parameters and is primarily intended to enter the set point adjustments - decrease, increase.
- Built-in combined temperature and humidity sensor located at the bottom of the front panel. Location maximizes measurement accuracy and eliminates the effect of heating the module to the actual measurements.
- Input for external temperature sensor and connection CIB bus is located at bottom part of the module.
- The interior part of the module is available in various designs, which are supplied to individual order.
- Firmware supports linearization and direct temperature reading from external NTC sensors of 5k, 10k, 12k, 15k and 20k. Firmware also eliminates distortion, respectively measurement error of these sensors in case of remote measuring.

Connection example



Universal input

Quantity	1
Optional input type	Binary, Pt1000, Ni1000,
	NTC12kΩ, KTY81-121, resistance
	160kΩ
Binary input	Potential free contact (0/1)
Balanced input for security	Resistance 1x2k2, or 2x1k1
detectors	

Operating and installation conditions

Operating and installation conditions		
0 +50 °C		
−25 +70 °C		
according to EN 60950		
IP 10 B		
II		
1		
arbitrary		
into the flush box		
Isolated wires with the sleeve 1.5mm ²		

- Input for external sensor can also be used for measuring any resistance of up to 100 kOhm.
- Status and error / operation is indicated by the LED on the bottom part of the module.

Connecting

- The module is designed for wall mounting into the standard installation flush box.
- The module has two parts: upper one with interior design with the control buttons and the temperature/humidity sensor and the bottom part with electronics of the CIB bus coupler and for external temperature sensor.
- CIB bus and input for external temperature/contact sensor has to be connected by insulated wires of length of about 70 mm with the sleeve.
- Both the top and bottom parts are interconnected together by a ribbon cable connector.

Application

- The module can be used to set the desired temperature, humidity or other variables while displaying two values on the LCD display.
- The module can be used to measure up to two temperatures. The internal temperature and one external - such as outdoor temperature, floor temperature, etc.
- The different resistance as a photo resistor or setting potentiometer can be connected as external sensor.

Display			
Туре	LCD backlight LCD without backlight (only		
	some designs)		
Number of displayed values	2 + unit symbols		
Number of symbols/icons	4		
Buttons (optional)			
Quantity	3		
Type	Momentary button		
Internal thermometer (optional)			
Range	-40 ÷ +125°C		
Resolution	0.1 °C		
The period of reading	typically 5s		
Internal hygrometer (optional)			
Range	0 ÷ 100% RH		
Resolution	1%		
The period of reading	typically 5s		

■Universal input

Pt1000	−90 ÷ +320 °C
Ni1000	−60 ÷ +200 °C
NTC 12kΩ	-40 ÷ +125 °C
KTY81-121	−55 ÷ +125 °C
Resistance input	0 ÷ 160kΩ
Resolution	0.1°C / 10Ω
Accuracy	0,5 %
Period of refresh AI	typically 5s

■ Dimensions and weight Dimensions

Nominal/max. load

Internal protection

Weight	80g
Power supply	
Power supply and	24 V (27 V) from the CIB
communication	
Nominal power consumption	45mA

0.3W

Reversible fuse

83x81x25mm (according the

Order data

TXN 133 37 C-RC-0003R-Design-Zak; CIB bus coupler for cover with LCD-HL1, 3 butt., temp.+humid. sensor, cover with LCD and frame ordered separately

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C-RC-0003R-Logus

Customized designs



C-RC-0003R-Gira

Other designs on request