Messtechnik ● Prozessinstrumentierung ● Prüf- und Kalibriertechnik
Measurement ● Process Instrumentation ● Test and Calibration Equipment

ICS SCHNEIDER MESSTECHNIK

Room Condition Monitor RCM 880
Humidity, temperature and pressure

RCM 880

Highlights

- Multi sensor system → Simultaneous measuring of humidity, temperature and pressure at one measuring point
- Integrated Transmitter → Simple integration into your system by standard signal
- Graphical trend display of all parameters → Intuitive recognition of process parameters and trends
- Robust construction → Reliable and long-lasting operation also at high mechanical stress
- Insensitive to electromagnetic interference
- Dirt-proof keyboard → Use in dusty or oily environments

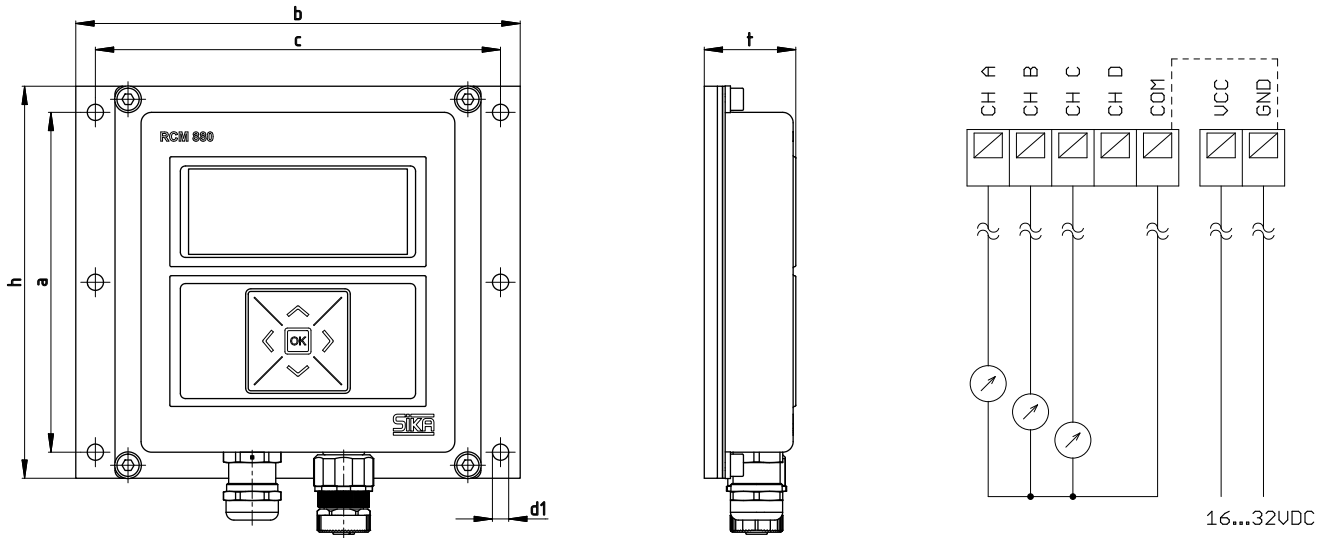| Technical data		
Version	Wall mounting	
Dimensions (W x H x D)		
→ Housing with mounting plate	170 mm x 150 mm x 35 mm	6.693″ x 5.906″ x 1.378″
Display		
→ Type	Dot matrix graphic display	
→ Backlight	Yes (adjustable)	
→ Size (W x H)	83 mm x 33 mm	3.268″ x 1.300″
→ Resolution	256 x 100 Pixel	
Indication accuracy	0.01	
Operating elements	5 capacitive keys	
Measuring rate	1 s	
Ambient temperature	-20...70 °C	-4...158 °F
Storage temperature	-20...70 °C	-4...158 °F
Degree of protection EN 60529	IP65, plug & cable connected	
Approvals		
EU RO Mutual Recognition Type Approval Certificate (Covers: ABS, BV, CCS, CRS, DNV, IRS, KR, LR, ClassNK, PRS, RINA, RS)		

ICS Schneider Messtechnik GmbH
Briesestraße 59
D-16562 Hohen Neuendorf / OT Bergfelde

Tel.: 03303 / 50 40 66
Fax.: 03303 / 50 40 68

info@ics-schneider.de
www.ics-schneider.de

Electrical data				
Power supply	24 VDC (16…32 V)			
Current consumption	<100 mA			
Input				
Measuring element	Digital Multi sensor for humidity, temperature and pressure			
Accuracy	See technical data - Multi sensor			
Electrical connection	4-pin plug connector M12 x 1			
Output				
Number of channels **Signals**	3 0…20 mA or 4…20 mA or 0…10 V or 0…5 V			
Measuring range				
→ Humidity	0…100 % RH			
→ Temperature	-40…85 °C	-40…185 °F		
→ Pressure	300…1200 mbar abs.			
Accuracy	16 bit / ±0.1 % of range ±1 digit @ 25 °C	16 bit / ±0.1 % of range ±1 digit @ 77 °F		
Signal error	**4…20 mA**	**0…20 mA**	**0…10 V**	**0…5 V**
→ Error Analog/Digital Converter	0 mA	0 mA	0 V	0 V
→ General error	<3.5 mA	0 mA	0 V	0 V
→ Underrange	3.8 mA	0 mA	0 V	0 V
→ Overrange	20.5 mA	20.5 mA	10 V	5 V
→ Sensor error	>21 mA	>21 mA	0 V	0 V
Electrical connection	Cable gland M16 x 1.5 (cable outer diameter 5…10 mm) Spring clamp terminal: cable cross section 0.2…1.5mm² (without wire ferrule) cable cross section 0.25…1mm² (with wire ferrule)			
Load → Current output → Voltage output	Max. 500 Ω Min. 1.5 kΩ			

Dimensions and materials

Room condition monitor RCM 880

Dimensions [mm]

Type	b	h	a	c	d1	t
RCM 880	170	150	130	155	Ø 6.2	35

Dimensions [inch]

Type	b	h	a	c	d1	t
RCM 880	6.693	5.906	5.118	6.102	Ø 0.244	1.378

Materials

Not in contact with medium	
Housing	Powder-coated steel, glass front window
Mounting plate	Aluminium, black anodized

Article numbers

Order code	
Type	
Room condition monitor type 880	880TPHXMU10
Set consisting of RCM type 880 (880TPHXMU10) and multi sensor type E03 (W103E030380X00)	880TPHXMU1SET1
Multi sensor type E03 for room condition monitor type 880	W103E030380X00