

# Digital multi sensor E03 for on-site measurement

Humidity, temperature and pressure // for RCM 880



E03



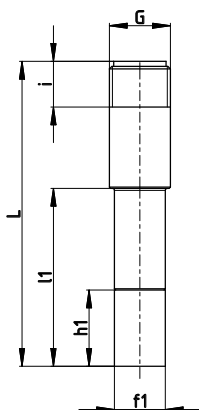
## Highlights

- Digital multi sensor designed to measure ambient humidity, temperature and air pressure
- Excellent accuracy over the full measuring range  
→ Accuracy specifications including temperature dependence and hysteresis
- Integrated memory for digital zero and slope adjustment → Easy recalibration
- Replaceable filter protects against dust and dirt
- Very high vibration resistance → Reliable and long-lasting operation
- Safe and compact electrical connection via M12 plug

Technical data	
<b>Type</b>	On site multi sensor for humidity, temperature and pressure
<b>Measuring range</b>	
→ Humidity	0...100 % RH
→ Temperature	-40...85 °C      -40...185 °F
→ Pressure	300...1200 mbar abs.
<b>Measuring medium</b>	ambient air (non-aggressive gases)
<b>Sensor length</b>	75 mm      2.953"
<b>Sensor diameter</b>	10 mm      0.394"
<b>Process connection</b>	without
<b>Nominal pressure</b>	n.a. (atmospheric pressure)
<b>Ambient temperature</b>	-40...85 °C      -40...185 °F
<b>Storage temperature</b>	-40...85 °C      -40...185 °F
<b>Degree of protection EN 60529</b>	IP40

Electrical data	
<b>Measuring element</b>	1 x digital sensor for humidity and temperature 1 x digital sensor for absolute pressure
<b>Measuring insert</b>	Not interchangeable / Filter cap changeable
<b>Accuracy</b>	
→ Humidity	±2.5 % RH @ 10...90 % RH, 20...60 °C (typ.)
→ Humidity	±2.5 % RH @ 10...90 % RH, 68...140 °F (typ.)
→ Temperature	±0.3 K
→ Pressure	±1.0 mbar @ 950...1050 mbar (typ.)
<b>Electrical connection</b>	4-pin plug connector M12 x 1

## Dimensions and materials



Dimensions [mm]						
Type	L	l1	i	h1	G	f1
E03	75	38	9	15	M12x1	Ø 10

Dimensions [inch]						
Type	L	l1	i	h1	G	f1
E03	2.953	1.496	0.354	0.591	M12x1	Ø 0.394

Materials	
In contact with media	
Immersion tube	Stainless steel 1.4571
Filter cap	Sintered bronze (filter size CA5)

## Article numbers

Order code	
Type	
Multi sensor type E03 for room condition monitor type 880	W103E030380X00