Digital multi sensor E03 for on-site measurement

Humidity, temperature and pressure // for RCM 880



E03

Highlights

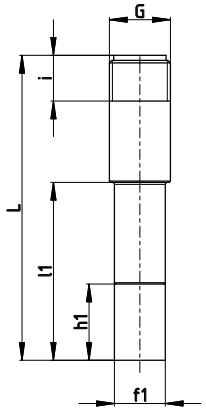
- Digital multi sensor designed to measure ambient humidity, temperature and air pressure
- Excellent accuracy over the full measuring range
  → Accuracy specifications including temperature dependence and hysteresis
- Integrated memory for digital zero and slope adjustment → Easy recalibration
- Replaceable 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		
Type	On site multi sensor for humidity, temperature and pressure	
Measuring range		
→ Humidity	0…100 % RH	
→ Temperature	-40…85 °C	-40…185 °F
→ Pressure	300…1200 mbar abs.	
Measuring medium	ambient air (non-aggressive gases)	
Sensor length	75 mm	2.953″
Sensor diameter	10 mm	0.394″
Process connection	without	
Nominal pressure	n.a. (atmospheric pressure)	
Ambient temperature	-40…85 °C	-40…185 °F
Storage temperature	-40…85 °C	-40…185 °F
Degree of protection EN 60529	IP40	

Electrical data	
Measuring element	1 x digital sensor for humidity and temperature 1 x digital sensor for absolute pressure
Measuring insert	Not interchangeable / Filter cap changeable
Accuracy	
→ 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.)
Electrical connection	4-pin plug connector M12 x 1

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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

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