

Industrial cable probes, steel

The metal industrial probe is especially suitable for high temperatures, demanding industrial environments and applications where hygiene plays an important role. The probe measures humidity and temperature and calculates the dew/frost point.

APPLICATIONS

Food and pharmaceutical production, drying processes, industrial manufacturing.

FEATURES

- Accuracy: $\pm 0.8\% \text{RH}$, $\pm 0.1 \text{ K}$, at $10 \dots 30 \text{ }^\circ\text{C}$
- Range of application: $-100 \dots 200 \text{ }^\circ\text{C}^1$, (screw-in probe; $-100 \dots 200 \text{ }^\circ\text{C}^1$) / $0 \dots 100\% \text{RH}$
- Digital interface (UART) and scalable analog outputs, $0 \dots 1 \text{ V}$
- Standard output scaling: $0 \dots 1 \text{ V} = -40 \dots 60 \text{ }^\circ\text{C}$ / $0 \dots 100\% \text{RH}$
- Adjusted at $23 \text{ }^\circ\text{C}$ and 10, 35, 80 %RH

Steel industrial probes

Ø 15/25 mm

Order code	HC2A-IM1xx*	HC2A-IM3xx*
Dimensions	Ø 15 x 130 mm	Ø 15 x 280 mm
Accuracy	$\pm 0.8\% \text{RH}$, $\pm 0.1 \text{ K}$, at $10 \dots 30 \text{ }^\circ\text{C}$	
Power supply	3.3...5 VDC, adjusted at 3.3 VDC, current: ~4.5 mA	
Sensor type	ROTRONIC HYGROMER® HT-1, PT100 1/3 Class B	
Response time	<15 s, without filter	
Housing material	Stainless steel, DIN 1.4301	
Weight	260 g	400 g

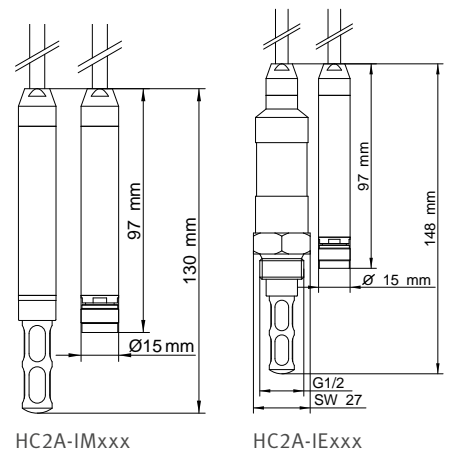
* xx = cable length in meters (02, 05), 80 g per meter cable

Screw-in probes

Ø 15 mm

Order code	HC2A-IE1xx*	HC2A-IE3xx*
Probe type	1/2" G with Rotronic connector	1/2" NPT with Rotronic connector
Accuracy	$\pm 0.8\% \text{RH}$, $\pm 0.1 \text{ K}$, at $10 \dots 30 \text{ }^\circ\text{C}$	
Power supply	3.3...5 VDC, adjusted at 3.3 VDC, current: ~4.5 mA	
Sensor type	ROTRONIC HYGROMER® HT-1, PT100 1/3 Class B	
Pressure	Pressure resistant to 100 bar / 1450 PSI	
Response time	<15 s, without filter	
Housing material	Stainless steel, DIN 1.4301	
Weight	290 g	

* xx = cable length in meters (02, 05), 80 g per meter cable



Compatible

- Handheld instruments HP32, HP23-A
- Data loggers HL-NT3-D
- Transmitters HF5, HF8, PF4, PF5

Delivery package

- Factory adjustment certificate

Recommended accessories

- Filters
 - Calibration device (HC2A-IM) ER-15
 - Humidity standard for calibration 10 %RH EA10-SCS
 - Humidity standard for calibration 35 %RH EA35-SCS
 - Humidity standard for calibration 80 %RH EA80-SCS
- ¹ Peak load: 100 h
Permissible continuous load: 190 °C