

Meteorological probe

HC2A-S3A

The HC2A-S3A probe is the meteorological probe with a white housing but with a different filter (Wire-mesh filter with 10 µm filter pore size suitable for meteorological applications). It measures relative humidity and temperature and calculates the dew/frost point and is designed for the use in Rotronic meteorological applications.

APPLICATIONS

Meteorology, weather stations, snow cannon

FEATURES

- Accuracy: ±0.8 %rh, ±0.1 K, at 10...30 °C
- Range of application: -50...80 °C¹ / 0...100 %rh
- Digital interface (UART) and scalable analog outputs, 0...1 V
- Standard analog output scaling: 0...1 V = -40...60 °C / 0...100 %rh

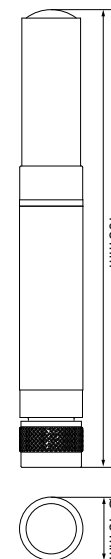
Order code	HC2A-S3A
Probe type	white
Dimensions	Ø 15 x 108 mm
Range of application	-50...80 °C ¹ , 0...100 %rh
Accuracy	±0.8 %rh, ±0.1 K at 10...30 °C
Power supply	3.3...5 VDC, adjusted at 3.3 VDC
Current consumption	~4.5 mA
Long-term stability	<1 %rh / year ²
Sensor type	ROTRONIC HYGROMER® HM1-SK, PT100 1/3 Class B
Filter type	Wire mesh 1.4401, 10 µm
Response time	<15 s, without filter
Max. wind velocity	3 m/s, without filter
Housing material	Polycarbonate
Weight/IP protection	10 g / IP65

*1: The sensor withstands only 60 °Cdp

*2: Drift < 1%rh per year with clean air or similar



HC2A-S3A



Compatible

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|--------------------------------|------------------|
| • Handheld instruments | HP32 |
| • Transmitters | HF5, PF4, PF5 |
| • Meteorology transmitters | MP102H, MP402H |
| • Naturally Ventilated Shields | AC1000 |
| • Actively Ventilated Shields | RS12-T or RS24-T |

Delivery package

- Factory adjustment certificate
- Short instruction manual
- Wire-mesh filter

Recommended accessories

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| • Mounting flange | AC5005 |
| • Filters | |
| • Extension cable 5 m, white | E3-05A |
| • Calibration device | 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 |