

TEMPERATURE AND HUMIDITY SENSOR

consisting of:

MP102H-030300

Transmitter with voltage output

0...1V = 0...100 %rh

0...1V = -40...+60°C

Supply voltage: 15 ... 24 VDC

HC2-S3

Meteorological probe for temperature and humidity

Range of application: -50..100 °C / 0..100 %rh

Accuracy: $\pm 0.1^\circ\text{C}$, at $23^\circ\text{C} \pm 5^\circ\text{C}$ / ± 0.8 %rh,

Digital interface (UART) and scalable analog outputs, 0..1 V

Standard output scaling: 0...1 V = -40...60 °C / 0...100 %rh

incl. Polyethylene dust filter and works certificate



AC1003

Multi-Plate Radiation Shield

Easy-to-install protective shield

Multi-plate system for natural ventilation

simple probe mounting

Protection against wind speeds up to 70 m/s and horizontal precipitation

Number of plates: 14

Specification

HC2-S3

Probe type	: Meteorological probe
Dimensions	: \varnothing 15 x 83 mm
Weight	: 10 g
Operating range electronics	: -50...100 °C / 0...100 %rh
Accuracy at 23 \pm 5 °C	: \pm 0.1 K / \pm 0.8 %rh
Accuracy w. adjustment profile "standard"	: at 23 °C / 10, 35, 80 %rh \pm 0.8 %rh / \pm 0.1 K
Long term stability	: <1 %rh / year
Humidity sensor	: Hygromer IN-1
Temperature sensor	: PT100 1/3 DIN Class B
Probe protection	: Polycarbonate plastic cage, white
Filter cartridge	: Polyethylene dust filter, white, 40 μ m
Response time t 63	: <15 sec.
Allowed wind speed	: 20 m/s, with filtre
Psychrometric calculations	: Dew or frost point
Reproducibility Airchip	: <0.02 %rh / 0.01 K
Exploitation software	: ROTRONIC HW4
Probe adjustment by software	: 1 Point & multipoint %rh & °C
Firmware update	: With internet and HW4 software
User information	: from Software HW4 (devicemanager)
Data processing via HW4	: with interface cables (optional, please see AC3001 connecting cable)
Device Protection by password	: Yes
Type of output signals	: 2 x 0...1 VDC
Analogue outputs scaleable by the user	: Yes
Analog output signal (standard)	: 0...1 V = 0...100 %rh; 0...1 V = -40...60 °C
Digital output signal (standard)	: UART
Communication interfaces	: UART
Service Interface	: UART
Reverse voltage protection	: Mechanically in the connector
Max. cable length service cable	: 5 m
Enclosure material	: Polycarbonate
FDA/GAMP compatibility	: FDA 21 CFR Part 11 and GAMP compatible



optional accessories:

AC3001 Connecting Cable

To connect the HC2 Probe with a computer.
(necessary to use the HW4 Software)



ER-15 Push-on calibration device

Gasket with O-ring and thumb screw.
For 1 probe, Brass, nickel-plated.
For probes with \varnothing 14 ... 15 mm



NSP-PCW-PE Spare filter cartridge for HC2-S3

Polyethylene dust filter



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