



METEOROLOGY

HygroClip HC2-S3 (AirChip3000)

Applications

Meteorology stations, building automation systems, agricultural meteorology

Use

Meteorology probe MP102H & MP402H series, OEM applications

Highlights

- Measures relative humidity, temperature and dew/frost point
- Hygromer® V-1 sensor
- Saves up to 2,000 measurement pairs *
- Range of application 0...100 %rh / -50...100 °C
- UART interface and freely scalable analog signals 0...1 V
- Standard scaling 0...1 V = 0...100 %rh / -40...60 °C
- Probe with adjustment profile «Standard», factory certificate

Order code

HC2-S3

HC2-S3H

Adjustment

At 23 °C and 10, 35, 80 %rh

Accuracy

±0.8 %rh / ±0.1 K

±0.5 %rh / ±0.1 K

Probe

Ø15 x 85 mm

Color

White

Housing

Polycarbonate

Filter

Polyethylene, white ~ 40 µm pore size

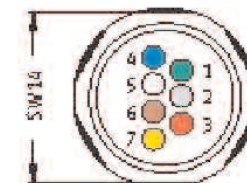
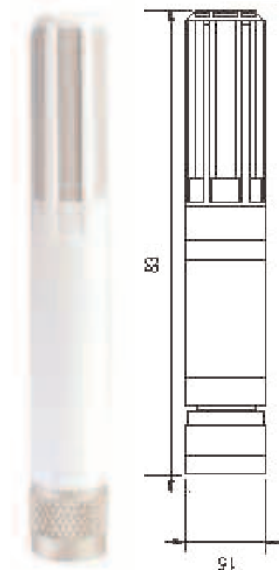
Order code

HC2-R3

Probe

Interchangeable probe with new humidity sensor

* Requires HW4 software



Electrical connections:

(all HygroClip2 probes with connector)

1 V+ (3.2 VDC to max. 5 VDC, ±0%; recommended: 3.3 VDC)

2 GND (ground, digital and power)

3 RXD (UART)

4 TXD (UART)

5 Analog signal %rh (0...100 %rh=0...1 V)

6 Analog signal °C (-40...60 °C = 0...1 V)

7 AGND (analog ground)

ANALOG METEOROLOGY PROBES

Standard meteorology probes with fixed sensors; analog technology

Hygromer® V-1 sensor

Order code

MP100A-xx

MP400A-xx

Output

Linear voltage output

Linear current output

Precision

Long term stability < 1 %rh / year

Resistance

Condensation, thawing and dust particles

Range of application

-40...60 °C

Measurement

Temperature with Pt100 – direct or linear output signal

Cable length

Cable-length compensation – no measurement deviations at a distance of up to 100 m

Filter

Wire fi lter ~ 20 µm pore size

