

HYGROCLIP HC2-S3 (AIRCHIP3000)

Applications

Meteorology stations, building automation systems, agricultural meteorology

Use

Meteorology probe MP102H & MP402H series, OEM applications

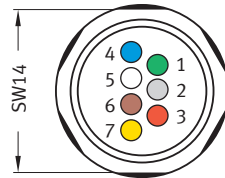
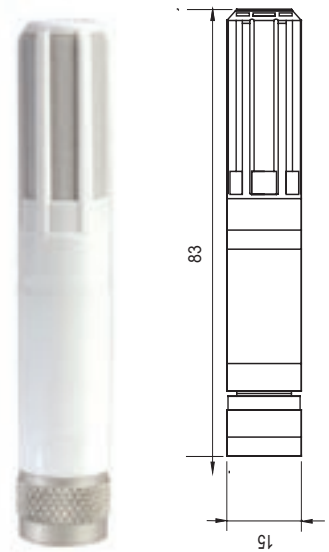
Highlights

- 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 filter ~ 20 µm pore size	

