

HYGROCLIP 2. HS-28 Sword Temperature Probes.

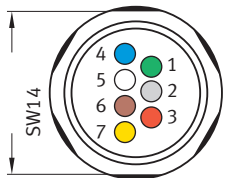
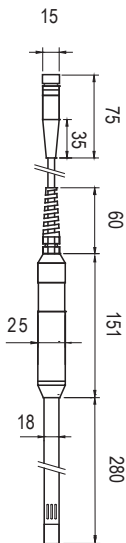


For rapid measurement of ERH and temperature in paper, card textiles and any sheet materials. The robust, yet lightweight sword has rounded edges to minimise insertion damage and thermally equilibrates extremely quickly with the material to give you a fast result.

HC2-HS28 is compatible with the HygroPalm 22

SPECIFICATIONS:

Applications	ERH measurement in paper, cardboard, textile and other
Main features	Humidity range: 0... 100%rh Limits on temperature sensor: -40°C to 85°C Thickness sword: 4 mm (0.16 ") Width: 22 mm (0.87 ") Length: 280 mm (11.0 ") Sensor cable Length: 2 metres (6.5 ft) Handle: POM, black sword:: Aluminum
Probe type	HygroClip® 2
Humidity sensor	ROTRONIC Hygromer® IN-1
Temperature sensor	Pt100, 1/3 Class B
Long term stability	better than 1%/rh / year
Measuring range with interchangeable probe	0...100 %rh and -40...85 °C
Calibration / adjustment	Digital via HygroPalm
Accuracy w. adjustment profile "standard"	at 23 °C and 10, 35, 80 %rh ± 0.8%/rh / ± 0.1 K
Accuracy w. adjustment profile "High Precision"	at 23 °C and 10, 20, 30, 40, 50, 60, 70, 80, 90 % rh ± 0.5%/rh / 0.1 K
Accuracy w. adjustment profile "Custom"	at 3 selectable temperatures from -10 to 70 °C and 20 selectable humidity values ± 0.5%/rh / K 0.1
Reproducibility Airchip	< 0.02 %rh / 0.01 K
Response time t 63	< 15 seconds
Measurement interval	typically 1 second (without calculations)
Operating range electronics	-40...100 °C and 0...100 %rh
Alerting	Yes, programmable
User information	From HW4 software devicemanager
Data processing via HW4	Via Interfacecable
Device Protection by password	Yes via HW4
Sensor diagnostics (drift, state)	programmable, factory setting: Off
Audit Trail/ electronic records	FDA CFR21 Part 11/GAMP comp.
External datalogging	2000 records
Power supply / Power consumption	3.2...5 VDC ±0 % / < 4.5 mA
Type of output signals	2 x 0...1 VDC
Analog output signal (standard)	0...1 V = 0...100 %rh 0...1 V = -40...60 °C
Digital output signal (standard)	UART = Universal Asynchronous Receiver Transmitter (ASCII)
Service Interface	UART
Reverse voltage protection	Mechanically in the connector
Max. able length service cable	5 m
Probe material	Aluminium
Probe cable material	TPU, black
Enclosure material	Handle: POM, black sword:: Aluminum
Weight	approximately 200g
FDA/GAMP compatibility	FDA CFR21 part 11 & GAMP



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)