

HC2A-S(M)-HH



Advantages

- Measures relative humidity, temperature and dew-point
- With HYGROMER HH1-SK sensor for hydrogen peroxide
- Advanced probe housing and construction
- Hot-swappable: fast exchange without adjustment

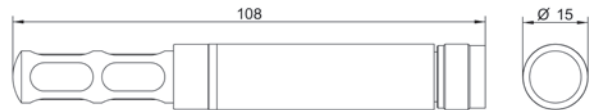
Decontamination & sterilization processes of biohazardous material

- Sterilization of medical equipment, incubators and clean rooms
- Pharmaceutical industry



Hydrogen Peroxide Probe HC2A-S-HH

- Application Range: 0...100 %rh, 0...60 °C
- Accuracy: ±1.0 %rh, ±0.1 K @ 10...30 °C
- Materials: PPS



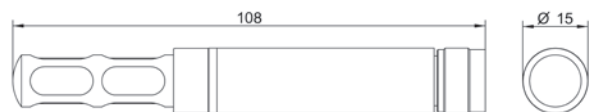
Order code	Probe diameter	Probe length	Probe length with filter carrier	Sensor element
HC2A-S-HH	Ø 15 mm	65 mm	108 mm	HYGROMER HH1-SK



Delivery package: With filter carrier (SPA-PCB), without filter. Filters must be purchased additionally.

Hydrogen Peroxide Probe HC2A-SM-HH

- Application Range: 0...100 %rh, 0...60 °C
- Accuracy: ±1.0 %rh, ±0.1 K @ 10...30 °C
- Materials: stainless steel 1.4301



Order code	Probe diameter	Probe length	Probe length with filter carrier	Sensor element
HC2A-SM-HH	Ø 15 mm	65 mm	108 mm	HYGROMER HH1-SK



Delivery package: With filter carrier (SPA-SS), without filter. Filters must be purchased additionally.

Computer Connection

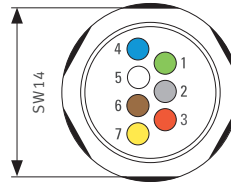
The cable AC3001 allows direct connection to a computer via USB and, with use of the HygroSoft software to adjust the HC2A-S(M)-HH probe's parameters such as

- Scale of analog outputs
- Calculated parameter on analog outputs

Technical Information

Order code	HC2A-S-HH / HC2A-SM-HH
Type	Humidity-Temperature-Probe for HH
Humidity Sensor	HYGROMER HH1-SK
Temperature Sensor	PT100 1/3 class B
PeakLoad H ₂ O ₂	880 ppm / 1200 mg/m ³
Operating humidity	0...100%rh
Operating temperature	0...60 °C
Accuracy @10...30°C before and after diffusion phase	±1.0 %rh, ±0.1 K
Analogue output	2 x 0...1 VDC
Analogue output parameter	<ul style="list-style-type: none"> Humidity (default) Temperature (default) Dew-point (setting with HygroSoft) Frost-point (setting with HygroSoft)
Analog output scaling	<ul style="list-style-type: none"> Humidity (0...100 %rh = 0...1 V) Temperature (-40...60 °C = 0...1 V) Freely settable with HygroSoft
Timing	Measurement interval of 1 s
Air Chip 3000	Saves adjustment data so that probes can be interchanged without re-adjusting
Housing material	Polycarbonat / Stainless steel 1.4301
Filter	No Filter
Audit Trail	FDA CFR21 Part 11 /GAMP comatible

Connector pin-out

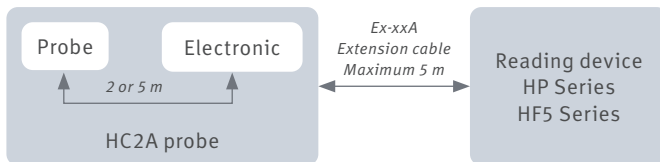


- 1 ● V+
- 2 ● GND (digital and supply)
- 3 ● RXD (UART)
- 4 ● TXD (UART)
- 5 ○ Analog signal humidity (0...100%RH=0...1 V)
- 6 ● Analsignal °C (-40...60 °C=0...1 V)
- 7 ● AGND (analog ground)

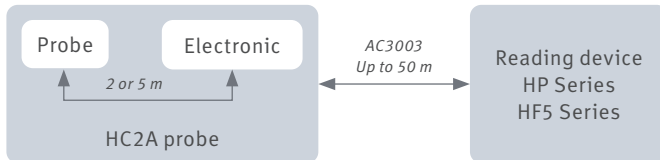
Possible Extension Cables

It is possible to extend the distance between the probe and its reading device with extension cable.

- Passive connections are possible up to 5 m (see table below for possible options).
- An amplifier cable (AC3003) allows connections up to 50 m.



Order Code	Cable Length	Color
E2-01A	1 m (0.95 - 1.05 m)	Black
E2-02A	2 m (1.92 - 2.08 m)	
E2-05A	5 m (4.85 - 5.15 m)	
E3-01A	1 m (0.95 - 1.05 m)	White
E3-05A	5 m (4.85 - 5.15 m)	



Order Code	Description	Cable Length
AC3003	Signal amplifier, probe and instrument side with luster terminal	Self assembly
AC3003/10	AC3003 with luster terminal and Cat. 5 cable	10 m (9.8 - 10.2 m)
AC3003/50		50 m

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