Hydrogen peroxide probe

HC2A-S(M)-HH

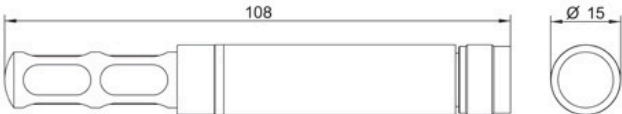
HYGROMER HH1-SK
Designed for increased load of H_2O_2

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 & sterelization processes of biohazardous material

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

Hydrogen Peroxide Probe HC2A-S-HH

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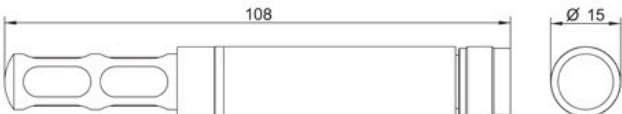- Accuracy: ±1.0 %rh, ±0.1 K @ 10…30 °C
- Materials: PPS

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
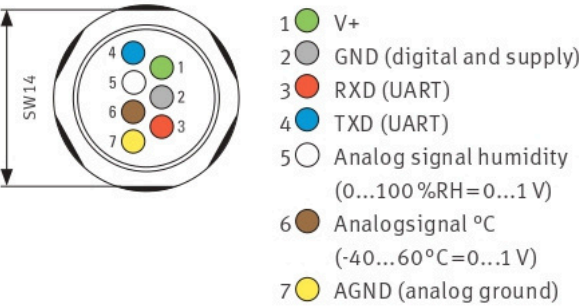
ProcessSensing.com

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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_2O_2	880 ppm / 1200 mg/m³
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	• Humidity (default) • Temperature (default) • Dew-point (setting with HygroSoft) • Frost-point (setting with HygroSoft)
Analog output scaling	• 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)
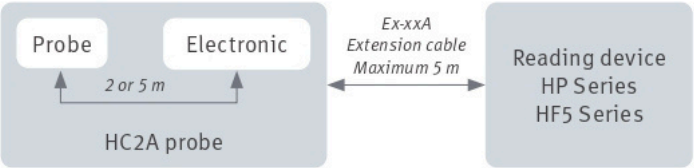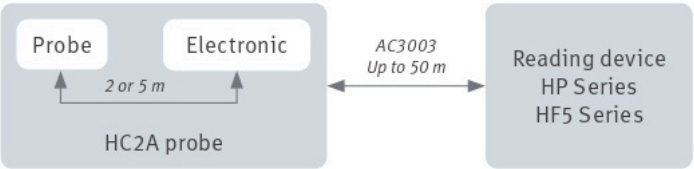6 Analogsignal °C (-40...60 °C = 0...1 V)
7 AGND (analog ground)

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.

Probe — Electronic
Ex-xxA Extension cable Maximum 5 m
Reading device HP Series HF5 Series
2 or 5 m
HC2A probe

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

Probe — Electronic
AC3003 Up to 50 m
Reading device HP Series HF5 Series
2 or 5 m
HC2A probe

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)
AC30003/50		50 m

Subject to technical change without notice. Printing and other errors reserved.