

# HC2A-S-HH



## ADVANTAGES

- Measures relative humidity, temperature and dew-point
- With HYGROMER HH-1 sensor for hydrogen peroxide
- Advanced probe housing and construction
- Hot-swappable: fast exchange without adjustment

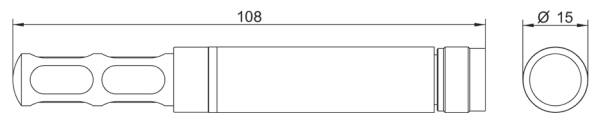
## APPLICATIONS

- Sterilization of clean rooms, incubators and other devices
- 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	109 mm	Hygromer® HH-1



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

## Computer Connection

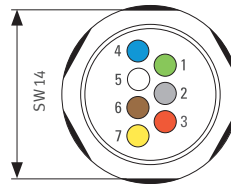
The cable AC3001 allows direct connection to a computer via USB and, with use of the HW4 software to adjust the HC2A-S-HH probe's parameters such as

- Scale of analog outputs
- Calculated parameter on analog outputs

## Technical Information

Order code	HC2A-S-HH
Type	Humidity-Temperature-Probe for HH
Humidity Sensor	Hygromer®HH-1
Temperature Sensor	PT100 1/3 class B
PeakLoad H <sub>2</sub> O <sub>2</sub>	880 ppm / 1200 mg/m <sup>3</sup>
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"> <li>Humidity (default)</li> <li>Temperature (default)</li> <li>Dew-point (setting with HW4)</li> <li>Frost-point (setting with HW4)</li> </ul>
Analogue output scaling	<ul style="list-style-type: none"> <li>Humidity (0...100 %rh = 0...1 V)</li> <li>Temperature (-40...60 °C = 0...1 V)</li> <li>Freely settable with HW4</li> </ul>
Timing	Measurement interval of 1 s
Air Chip 3000	Saves adjustment data so that probes can be interchanged without re-adjusting
Housing material	Polycarbonat
Filter	No Filter
Audit Trail	FDA CFR21 Part 11 /GAMP comatible

### Connector pin-out

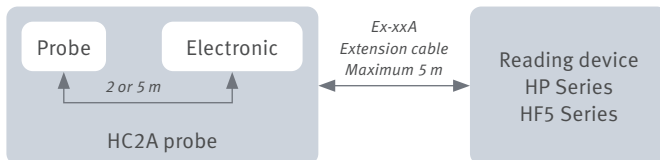


- 1 ● V+
- 2 ● GND (digital and supply)
- 3 ● RXD (UART)
- 4 ● TXD (UART)
- 5 ○ Analog signal humidity (0...100%RH=0...1 V)
- 6 ● Analsignal °C (-40...60 °C=0...1 V)
- 7 ● AGND (analog ground)

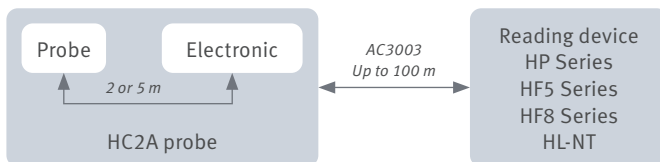
## Possible Extension Cables

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

- Passive connections are possible up to 5m (see table below for possible options).
- An amplifier cable (AC3003) allows connections up to 100m.



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 pre-assembled Cat. 5 cable	10 m (9.8 - 10.2 m)
AC30003/50		50 m

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