



RMS-HCD-S



RMS-HCD-IC102
RMS-HCD-IC105

ADVANTAGES

- Measures relative humidity and temperature
- Outstanding accuracy, repeatability and long-term stability
- Advanced probe housing and construction
- Compatible with RMS loggers and RMS Software
- Low power

APPLICATIONS

- Pharmaceutical Monitoring
- Food Monitoring
- Museum Monitoring
- Monitoring conform to GxP and FDA CFR PART 11



The Hygroclip Digital RMS-HCD was specifically designed for use as part of the **Rotronic Monitoring System (RMS)**. Building upon our experience we improved the power consumption so that it is usable by battery powered system like the RMS wireless data loggers. Having less cabling reduces installation cost and increases the flexibility of the installation.

Standard

Compatible with the following with RMS data loggers such as the RMS-LOG-L (LAN data logger), RMS-LOG-868 (Wireless and RMS-LOG-915.

- Application Range 0...100 %RH, -40...85 °C
- Accuracy ± 0.8 %RH, ± 0.1 K @ 23°C
- Factory-adjustment @ 23°C and 10, 35, 80 %RH
- Humidity Sensor HYGROMER HT-1
- Long-term stability < 1% RH /year

Order Code	Type
RMS-HCD-S	Black Probe
RMS-HCD-S3	White Probe

Industrie

Industry probes have a sensor head separated from the measurement electronic by a cable. This allows a higher application range for the sensor head.

- Application Range sensor head 0...100 %RH, -100...190 °C
- Application Range electronic 0...100 %RH, -40...85 °C
- Accuracy ± 0.8 %RH, ± 0.1 K @ 23°C
- Factory-adjustment @ 23°C and 10, 35, 80 %RH
- Materials PPS, stainless steel 1.4301
- Humidity Sensor HYGROMER HT-1
- Long-term stability < 1% RH /year

Order Code	Cable length
RMS-HCD-IC102	2 m
RMS-HCD-IC105	5 m



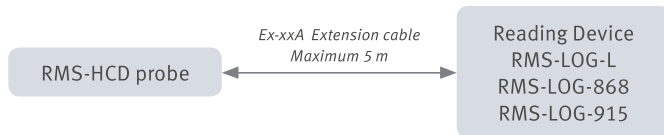
Possible Filters

Order Code	Filter carrier	Filter Element	Pore size	Application Range
SPA-PCB-PE	Polycarbonate, black	Polyethylene, white	40-50 µm	-50...100 °C
SPA-PCB-PTFE		PTFE, white	10 µm	
SPA-PCB-WM		Wire mesh 1.4401		
SPA-PCW-PE	Polycarbonate, white	Polyethylene, white	40-50 µm	
SPA-PCW-PTFE		PTFE, white	10 µm	
SPA-PCW-WM		Wire mesh 1.4401		
SPA-PE	No filter carrier, only filter	Polyethylene	40-50 µm	
SPA-PTFE		PTFE, white	10 µm	-100...200 °C

Possible Extension Cables

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

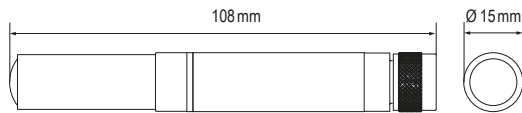
- Passive connection are possible up to 5m (see table below for possible options).



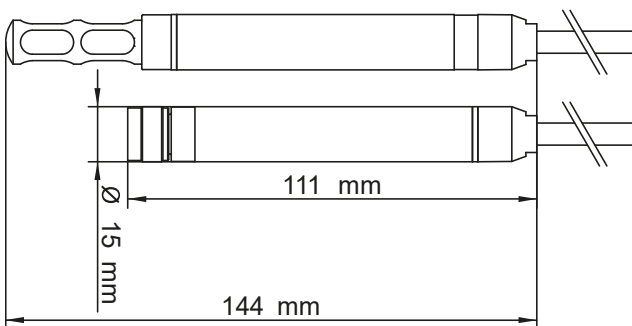
Order Code	Cable Length	Color
E2-01A	1 m	Black
E2-02A	2 m	
E2-05A	5 m	
E3-01A	1 m	White
E3-02A	2 m	
E3-05A	5 m	

TECHNICAL INFORMATION

RMS-HCD-S, RMS-HCD-S3



RMS-HCD-IC102, RMS-HCD-IC105



Technical Data

Humidity sensor	HYGROMER HT-1
Temperature sensor	PT1000, Class 1/3 B (RMS-HCD-S) PT100, Class 1/3 B (RMS-HCD-IC)
Operating humidity	0...100 %RH
Operating temperature	-40...+85 °C RMS-HCD-S -40...+85 °C RMS-HCD-IC electronic -100...190 °C RMS-HCD-IC sensor head
Accuracy @ 23 °C	±0.8 %RH ±0.1 K
Supply voltage	2.5...5.5 VDC
Current consumption	5 mA (RMS-HCD-S) 12 mA (RMS-HCD-IC)
Protection rating	IP65
Digital communication	UART
Compatible devices	RMS-LOG-L RMS-LOG-868 RMS-LOG-915
Compliance	GAMP5 FDA 21 CFR Part 11

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

59083E/2018-08