

HYGROCLIP HCD-S



THE FAST RESPONSE DIGITAL HIGH-END PROBE

WITH NEW AIRCHIP4000 TECHNOLOGY

- Measures relative humidity and temperature, calculates the dew point
- With new HYGROMER® HT-1 sensor
- Outstanding accuracy and repeatability
- Accuracy ± 0.8 %RH
- Excellent long-term stability < 1 %RH / year
- Developed for very low power applications
- Digital calibration and adjustment
- Compatible with RMS data loggers and RMS software
- Conforms to FDA 21 CFR Part 11/ GAMP5



TECHNICAL INFORMATION

The HCD-S digital probe is characterized by its high performance. Very low current consumption, the highest accuracy, and measurement results within 50 ms (command response time of electronics) are its outstanding features. This is due to the new AirChip4000, which together with the new HYGROMER® HT-1 sensor forms a powerful combination.

Rotronic Monitoring System – RMS

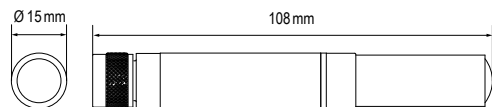
The modular monitoring system for various measured parameters. It consists of hardware components and web software. Maximum flexibility in installation is guaranteed and there is excellent availability of all the data in use. The data loggers record measurements made by Rotronic and also third-party sensors and transmit them to the database. It stores all the information and makes it available to authorized users, regardless of whether they access the database using a PC, Mac, tablet or smartphone. RMS is ideal for large monitoring systems in companies as well as for simple, small applications, for which Rotronic makes the database available as a cloud account. The system conforms to GxP and FDA 21 CFR PART 11.



Compatible with:

- **RMS-LOG:** Wireless / LAN data logger for humidity and temperature measurement

Dimensions



OEM integration

Using industry standard MODBUS RTU communication, the HCD-S is ideal for OEM applications. Very low power consumption, industry leading accuracy and low drift together with proven Rotronic reliability mean that the HCD-S probe is perfect for integration in any application.

Would you like more information?

You can find a complete, up-to-date overview of our probes on the internet at www.rotronic.com/rms

General Specifications	
Humidity sensor	HYGROMER® HT-1
Temperature sensor	Pt1000 1/3 DIN Class B
Accuracy	±0.8 %RH, ±0.1 K, at 10...30 °C adjusted at 23 °C, 10, 35, 80 %RH
Long-term stability	<1 %RH / year
Adjustment and calibration	Up to 20 points
Measurement range	-40..85 °C / 0..100 %RH*
Startup time	50 ms
Measurement interval	500 ms
Response time τ63	<15 s, without filter
Range of application / Storage conditions	-40...85 °C
Power supply	2.5...5.5 VDC
Current consumption	<0.5 mA @ 2.5...5.5 VDC
Filters	Polyethylene
Interface	UART
Protocols	MODBUS RTU
Conformity with Standards	
FDA / GAMP directives	FDA 21 CFR Part 11 / GAMP5
Housing / Mechanical Parts	
Housing material	PC, PPS, stainless steel 1.4301 (knurled screw)
Dimensions	Ø15 x 108 mm
IP protection class	IP65

* Only valid with using filter.

Subject to technical change without notice. Printing and omissions excepted.

MEASUREMENT SOLUTIONS

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