



HCD-S / E2-05XX-MOD

BENEFITS

- Measures relative humidity and temperature
- Outstanding accuracy, repeatability and long-term stability
- Standardized MODBUS RTU communication allows an easy design and minimizes the installation costs
- Low power consumption

APPLICATIONS

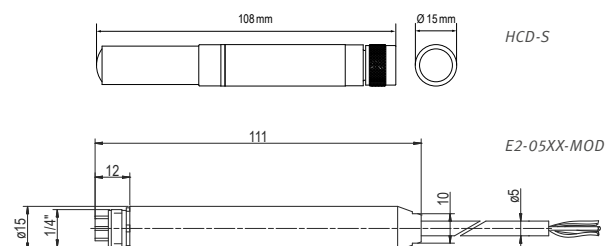
- Pharmaceutical industry
- Food industry
- Building services equipment
- Paper and textile



Technical Information

Technical data	
Order code	HCD-S-MOD
Consist of	HCD-S & E2-05XX-MOD
Range of application (humidity)	0...100 %rh
Range of application (temperature)	-40...85 °C
Humidity sensor	HYGROMER HT-1
Long-term stability	<1 %rh/year
Accuracy	±0.8 %rh, ±0.1 K @ 23 °C
Material	Polycarbonate

Dimensions



Technical data HCD-S and E2-05XX-MOD	
Humidity sensor	HYGROMER HT-1
Temperature sensor	PT1000, Class 1/3 B
Operating humidity	0...100 %rh
Operating temperature	Probe and cable: -40...70 °C HCD-S: -40...85 °C E2-05XX-MOD: -40...70 °C
Accuracy @ 23 °C	±0.8 %rh ±0.1 K
Long-term stability	1 %rh / year
Startup time	100 ms
Measurement interval	500 ms
Response time sensor	t63: <15 s without filter, (temperature and humidity)
Maximum wind velocity	3.5 m/s without filter
Supply voltage	5...28 VDC with cable E2-05XX-MOD Probe only: 2.8...5.5 VDC
Current consumption cable and probe @ 24V	2.5 mA
Protection rating	IP65 (except sensor area)
Material	Polycarbonate
Protocol / Interface	Modbus RTU / RS-485

Possible Filters

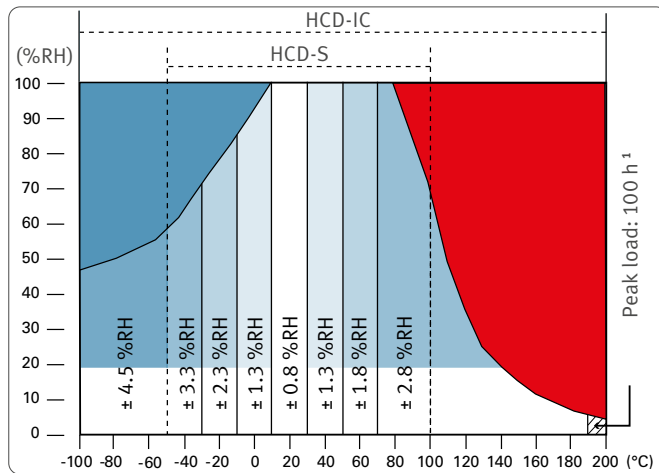
Order code	Filter carrier	Filter element	Pore size	Application range
SPA-PCB-PE	Polycarbonate, black	Polyethylene, white	40-50 µm	-50...100 °C
SPA-PCB-PTFE		PTFE, white	10 µm	
SPA-PCB-WM		Wire mesh 1.4401		

For pricing or any further information, please contact Omni Instruments Ltd.

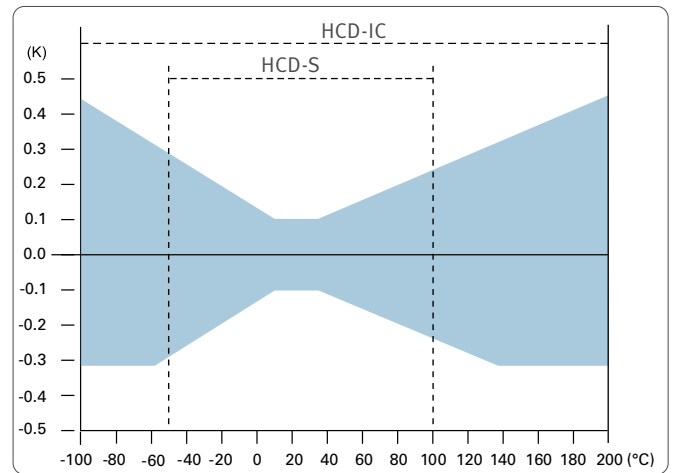


Accuracy of HCD Probes

Humidity Window



Temperature Window



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