LOW DEW POINT PROBE





RELIABLE MEASUREMENT OF TRACE MOISTURE.

- Highly accurate dew point and temperature measurement
- Withstands pressures up to 100 bar
- HYGROMER® LDP-1 sensor element
- Excellent repeatability
- With the latest AirChip4000 measurement technology
- Compatible with HF5 / HF8 / PF4 transmitters and HP22 / HP23 handhelds





TECHNICAL INFORMATION.

AirChip4000 / HYGROMER® LDP-1

The low dew point probe comes with the latest AirChip4000 technology. Calculates a measurement from the average of 8,000 single points within a 2 second interval and, together with the HYGROMER® LDP-1 dew point sensor, delivers measurements of the highest quality.

Field of Application (EX



The low dew point probe can be used in compressed air systems, refrigeration driers and adsorption driers. ROTRONIC offers the probe with EX certificate for environments with ATEX requirements. Please refer to to the ATEX data sheet for more detailed information.

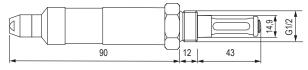
Accessories

Suitable measurement chambers with a defined air flow rate and a quick connector for optimum dew point measurement are available in POM and stainless steel. The base unit can be used for customization.

Standard Meas. Chambers		Meas. Chambers Base Unit		
LDP-FCPB1	LDP-FCSB1	LDP-MCP	LDP-MCS	

Measurement Chamber Specifications				
Air flow	1 liter/min. @ 8 bar (LDP-FC)			
Measurement range	-4085 °C / -50100 °C (stainless steel)			
Pressure resistance	16 bar / 100 bar (only LDP-MCS)			
Dimensions	40 x 106 mm			
Connections	G1/2" thread Compressed air fitting DN 7.2 (only LDP-FC) 2 x G 1/4" thread (only LDP-MC)			
Housing material	Base unit: POM / Stainless steel 1.4301 Brass (fixed valve / quick connector)			

Dimensions



Would you	like	more	inform	nation?

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

General Specifications Device type Digital dew point & temperature probe -70...85 °C T_d / -40...85 °C Measurement range ±2 K T_d (-50...20 °C T_d) Dew point accuracy @ 23 °C ±3.5 K T_d (-60...-50 °C T_d) Temperature accuracy @ 23 °C ±0.2 K Power supply 3.3...5 VDC IP65 IP protection Current consumption <1.5 mA Compatible with HF5, HF8, PF4, HP22, HP23 AC3001, HW4 Probe Filter / Filter carrier Sintered stainless steel, 50 µm Maintenance / Calibration Annual calibration (recommended) HYGROMER® LDP-1 Dew point sensor <1 °C T_d/year Long-term stability dew point sensor Typically <10 min, with filter(wet to dry) Response time dew point sensor T63: @ -50 °C T_d Typically <13 s, with filter (dry to wet) Response time temperature Typically <15 min, with filter sensor T63: @ -50 °C T_d Temperature sensor Pt1000, Class B 1/3 DIN 2 sec. Measurement interval 16 bar Pressure resistance 100 bar (with LDP-MCS measurement chamber) Dimensions 145 x 31 mm (probe head) Hexagonal nut: 27 mm Interface **UART** Probe 260 g Weight Measurement chamber POM 140 g Measurement chamber steel 610 g Storage and transport conditions -40...85 °C, non-condensing Conformity with Standards CE / EMC compatibility 2004/108/EC FDA / GAMP directives Compatible

Stainless steel, 1.4301

Housing material