Dew Point Sensor – K Series

For membrane, drum, refrigerant & hybrid dryers

Key Features

- Dew Point Range:
 - -60°C to +60°C | -76°F to +140°F
- IP65 rating
- Accuracy: ±2%
- Power Supply: 10 ... 30 VDC
- Output:
- Digital: Modbus RTU
- Analogue: 4...20 mA
- Measure:
 - Pressure Dew Point (PDP), Relative Humidity (RH) and Temperature.
 - o Optional: Pressure
- Alarm relay only available on the 'Dew Point Sensor with Display'

About

This precision dew point sensor is ideal for compressed air and inert gas systems up to 4 Mpa (600psi) with refrigerant, desiccant, hybrid, or membrane dryers.

The optional integrated pressure sensor makes measuring simpler and easier to manage, reducing wiring and installation costs.

With polymer technology and strong contamination resistance, sensor calibration can be performed every 2 years. The fast response time ensures an accurate and up to date reading, giving you peace of mind that your system is under control.



Applications

- Manufacturing and industrial use
- Gas systems up to 4 Mpa (600psi)
- Temporary or permanent installation
- Gas pressure up to 50 bar (725 psi)



More Info



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Specifications

Sensor		
Sensor Technology	Polymer sensor	
Sensor Filter	tainless steel mesh filter (filter grade 40-50 um)	
Contact us for other filter options		
Measurement Range		
Pressure Dew Point Range	-60°C to +60°C (-76°F to +140°F)	
Gas Temperature Measuremen Range	t -40 to +100 °C -40 to +212°F	
Pressure Measurement Rangewith pressure sensorwithout pressure sensor	0 to 17 bar 0 to 50 bar	
Accuracy		
Dew Point Accuracy	±2%	
Temperature Accuracy • 0 to + 50°C • -40 to 0°C and +50 to +100	±0.3°C °C ±0.5°C	
Pressure Accuracy (@23°C)	±0.3% F.S	
Pressure changes with tempera	ature ±0.01 bar / 10°C	
Dew Point Measurement Response Time		
-50 to +20 °Ctd	20 sec [40 sec]	
+20 to -50 °Ctd	1 min [3 min]	
Reference Conditions: 63% [90%], 20 °C, 1bar(a), 4L/min		
Working Environment		
Ambient Temperature	-30 to +70°C -22 to +158°F	
Relative Humidity	0 to 95% RH	

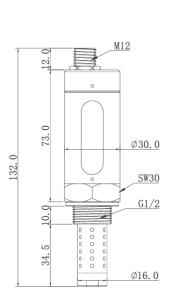
Output		
Outputs	4-20 mA (3 wire) Modbus RTU (RS485)	
Current Output Resolution	0.002 mA	
Current Output Temperature Drift	0.01% of span/°C	
Current Output Load	Max 500 ohm	
Alarm Relay OutputStandard Dew Point SensorSensor with Display	Not available Normally open 32 VDC/500 mA	
ConnectorStandard Dew Point SensorSensor with Display	1 x 5 pin M12, female 2 x 5 pin M12, female	
Power Supp		
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Power RequirementStandard Dew Point Sensor	10 30 VDC Max 50 mA @ 24 V	
• Sensor with Display	16 30 VDC Max 150 mA @ 24 V	
Electromagnetic Compatibility	Meets IEC 61326-1	
Other		
Process Connection	G1/2" thread	
Contact us for UNF process connection		
IP Rating	IP65	
CasingStandard Dew Point SensorSensor with Display	Stainless Steel Anodised Aluminium	
DisplayStandard Dew Point SensorSensor with Display	NA 1.5" touch screen	
HS Code	9025.80.40	



Minimum gas flow

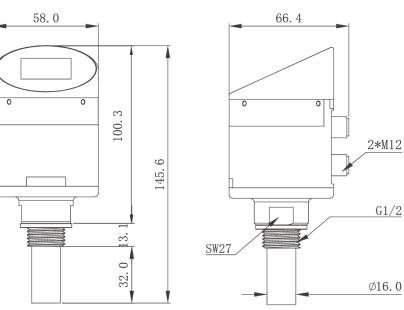
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> 1L /min

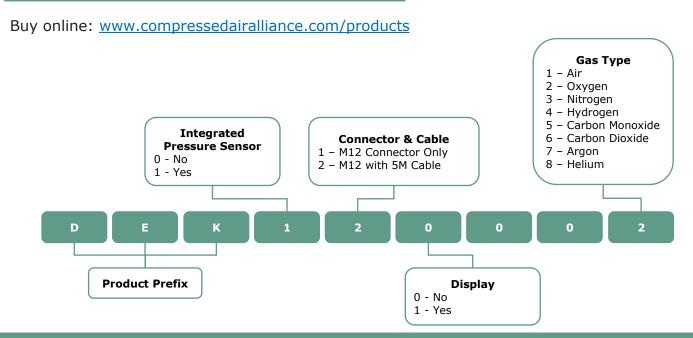


Standard Dew Point Sensor

Dew Point Sensor with Display



How to Order





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W Series Dew Point Sensor

Wall mount dew point monitor. Comes with a large display and alarm (red/green light, siren)

Pressure Dew Point Range -110°C to +20°C (-166°F to +68°F) or -80°C to +20°C (-112°F to +68°F) or -60°C to +60°C (-76°F to +140°F)

Gas Contamination Minimal to moderate contamination

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A Series Dew Point Sensor

Ideal for very low dew points **Pressure Dew Point Range** -110°C to +20°C (-166 °F to +68°F) or -80°C to +20°C (-112°F to +68°F)

Gas Contamination Minimal contamination

K Series Dew Point Sensor

Robust sensor, suitable for harsh conditions

Pressure Dew Point Range -60°C to +60°C (-76°F to +140°F)

Gas Contamination Moderate levels of contamination

Mini Dew Point Sensor

Entry level sensor. Compact design. Can be used in small spaces

Pressure Dew Point Range -60°C to +60°C (-76°F to +140°F)

Gas Contamination Moderate levels of contamination

H Series Dew Point Meter



Portable / Handheld dew point meter. Ideal for temporary measurement

Pressure Dew Point Range -110°C to +20°C (-166°F to +68°F)

-60°C to +60°C (-76°F to +140°F)

Gas Contamination Minimal to moderate contamination

Outputs

4-20mA and alarm relay

Technology Alumina-Oxide or Polymer sensor (depending on dew point range)

Options

Integrated pressure sensor Power Plug (USA, Euro, UK or Australian plug)

Outputs

Modbus & 4-20mA

Technology Alumina-Oxide sensor

Options Integrated pressure sensor, in-built display, data cable, outdoor casing (IP67 rating)

Outputs

Modbus & 4-20mA

Technology Polymer sensor

Options Integrated pressure sensor, in-built display, data cable, outdoor casing (IP67 rating)

Outputs

Modbus & 4-20mA

Technology Polymer sensor

Options

Stainless Steel or Aluminium casing Note: No integrated pressure or in-built display option available

Outputs

None. Stand alone unit

Technology

Alumina-Oxide or Polymer sensor (depending on dew point range)

Options

None – comes with integrated pressure sensor and measurement chamber



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