

Features:

- Dew Point Range:
 -60°C to +60°C
 (-76°F to +140°F)
- Accuracy +/- 2°C
- Gas systems up to 4 Mpa (600psi)
- Up to four output signals
 (i) Pressure Dew Point
 (ii) Relative Humidity
 (iii) Temperature and
 (iv) Pressure (with
 - optional integrated pressure sensor)
- Two outputs as standard

 (i) Digital Modbus and
 (ii) Analog 4-20mA
- Fast response time
- Includes Measuring Chamber and M12 connector
- IP65 rated
- Options
 - (i) integrated pressure sensor
 - (ii) 5m Cable
 - (iii) Multiple Gas options
 - (iv) In-Built Display
- Alarm relay only available on the 'Dew Point Sensor with Display'

Dew Point Sensor – K Series

For refrigerant or desiccant dryers with dew point of -50°C to +20°C



This precision dew point sensor is ideal for compressed air and inert gas systems up to 4 Mpa (600psi) with refrigerant, desiccant 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 years¹. The fast response time ensures an accurate and up to date reading, giving you peace of mind that your system is under control.

¹Provided sensor not exposed to relative humidity above 85%

More information: www.compressedairalliance.com/products

Benefits of dew point monitoring:

- Improve system reliability
- Reduce product contamination risks
- Reduce system maintenance
- Reduce operating and energy costs
- Improve dryer reliability
- Improve filter life and performance
- Reduce risk of rust and corrosion build up
- Reduce risk of bacteria, fungus and yeast build up
- Be aware of changes in dryer performance before moisture appears in your plant





Specifications

Sensor		
Sensor Technology	Polymer sensor	
Sensor Filter	Stainless 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 Measureme Range	-40 to +100 °C -40 to +212°F	
Pressure Measurement Rangewith pressure sensorwithout pressure sensor	9 0 to 17 bar 0 to 50 bar	
Accur	acy	
Dew Point Accuracy	±2%	
Temperature Accuracy • 0 to +50°C • -40 to 0°C and +50 to +10	±0.3°C 00°C ±0.5°C	
Pressure Accuracy (@23°C)	±0.3% F.S	
Pressure changes with tempe	rature ±0.01 bar / 10°C	
Dew Point Measurem	ent Response Time	
-50 to +20 °Ctd	20 sec [40 sec]	
+20 to -50 °Ctd	1 min [3 min]	
Reference Conditions: 63 4L/ı		
Working Env	vironment	
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 Output Standard Dew Point Sensor Sensor with Display	Not available Normally open 32 VDC/500 mA	
Connector • Standard Dew Point Sensor • Sensor with Display	1 x 5 pin M12, female 2 x 5 pin M12, female	
Power Supp	·	
,		
Power Requirement • Standard 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	
IP Rating Casing Standard Dew Point Sensor Sensor with Display	IP65 Stainless Steel Anodised Aluminium	



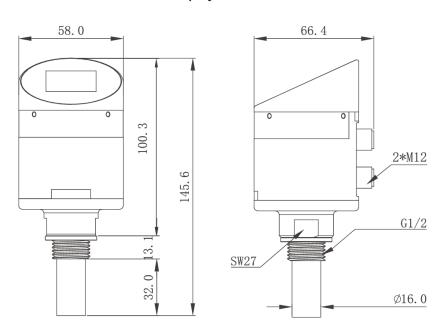


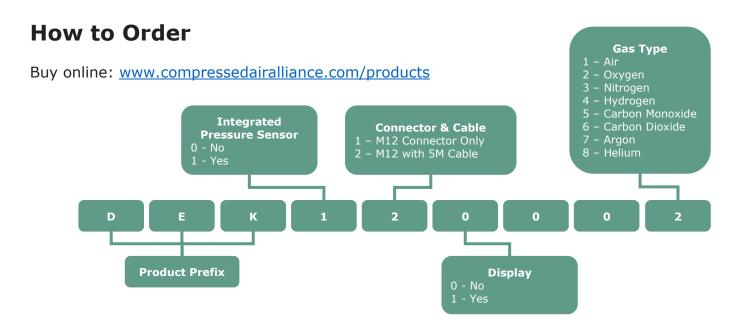
Dimensions (mm)

Standard Dew Point Sensor

0 7 8 9 9 9 16. 0

Dew Point Sensor with Display









Other Dew Point Sensors



W Series Dew Point Sensor

Wall mount dew point monitor. Ideal for applications that require a large display or visual alarm

Pressure Dew Point Range

-110°C to +60°C (-166°F to +140°F)

Gas Contamination

Minimal to moderate contamination

Outputs

None. Stand alone unit

Technology

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

Options

Integrated pressure sensor

Power Plug (USA, Euro, UK or Australian plug)

Q Series Dew Point Sensor

"Top of the range" sensor

Pressure Dew Point Range

-110°C to +0°C (-166°F to +32°F)

Gas Contamination

High purity gases. Little to no contamination

Outputs

Modbus & 4-20mA

Technology

Quartz sensor technology

Options

Integrated pressure sensor, in-built display,

data cable



A Series Dew Point Sensor

Mid-range sensor

Pressure Dew Point Range

-100°C to +20°C (-148 °F to +68°F)

Gas Contamination

Minimal contamination

Outputs

Modbus & 4-20mA

Technology

Alumina-Oxide sensor

Options

Integrated pressure sensor, in-built display,

data cable



Mini Dew Point Sensor

Entry level sensor. Compact design and 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

Outputs

Modbus & 4-20mA

Technology

Polymer sensor

Options

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

display option available



P Series Dew Point Meter

Portable dew point meter. Ideal for temporary measurement

Pressure Dew Point Range

-110°C to +60°C (-166°F to +140°F)

Gas Contamination

Minimal to moderate contamination

Outputs

None. Stand alone unit

Technology

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

Options

Integrated pressure sensor

Power Plug (USA, Euro, UK or Australian plug)

