

Dew Point Sensor – Mini Series

Compact, affordable dew point sensor

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 three output signals
(i) Pressure Dew Point
(ii) Relative Humidity
(iii) Temperature and
- Two outputs as standard
(i) Digital - Modbus and
(ii) Analog - 4-20mA
- Fast response time
- Includes Measuring Chamber, M8 connector and data cable
- IP65 rated
- Long term stability
- Anti-condensation, anti-particulate pollution, oil vapour and most chemicals
- Options
(i) Aluminium or Stainless Steel casing
(ii) Multiple Gas options



Stainless Steel Casing

Aluminium Casing

This compact dew point sensor is perfectly suited for compressed air and inert gas systems up to 4 Mpa (600psi) with refrigerant or desiccant dryers.

With its precision 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.

¹ Provided 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

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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 to +60°C -76°F to +140°F
Gas Temperature Measurement Range	-40 to +100 °C -40 to +212°F

Accuracy

Dew Point Accuracy	±2%
Temperature Accuracy	
• 0 to + 50°C	±0.3°C
• -40 to 0°C and +50 to +100°C	±0.5°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

Power Supply

Power Requirement	10 ... 30 VDC Max 50 mA @ 24 V
Electromagnetic Compatibility	Meets IEC 61326-1

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
Connector	1 x 5 pin M8, female

Working Environment

Operating Temperature	-30 to +70°C -22 to +158°F
Pressure	0 to 50 bar
Relative Humidity	0 to 95% RH
Minimum gas flow	> 1L /min

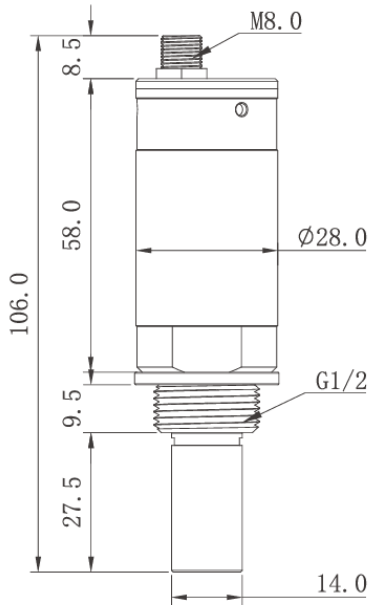
Other

Process Connection	G1/2" thread
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Contact us for UNF process connection

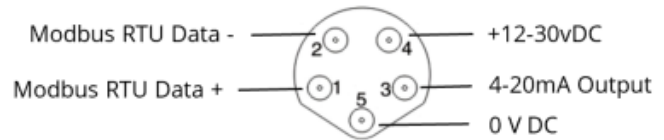
IP Rating	IP65
Casing	Aluminium, or Stainless Steel
Dimensions	106 mm x 28 mm 4.2" x 1.1"

Dimensions (mm)



Wiring

M8 connector (5 pin)

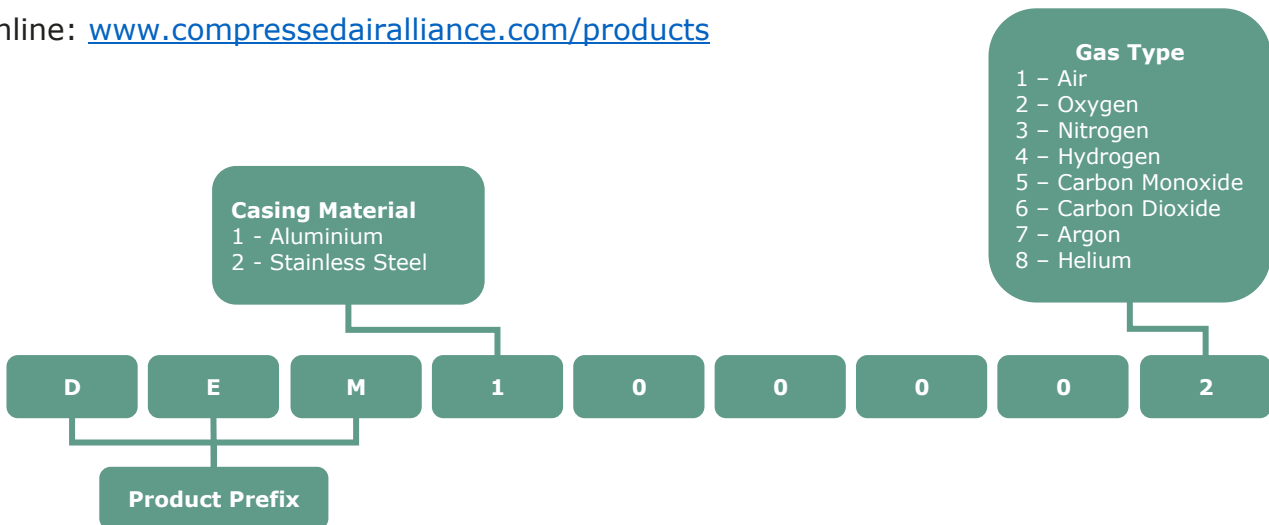


Connector

Pin 1	RS485, Data + (A)
Pin 2	RS485, Data - (B)
Pin 3	4-20mA Output
Pin 4	+12-30vDC
Pin 5	0vDC (Ground for Modbus)

How to Order

Buy online: www.compressedairalliance.com/products



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

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

Outputs

Modbus & 4-20mA

Technology

Polymer sensor

Options

Integrated pressure sensor, in-built display, data cable



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)