

Dew Point Sensor – P Series

Portable dew point and pressure sensor with data logger

Features:

- Three Dew Point Ranges:
 - (i) -60°C to +60°C
-76°F to +140°F
 - (ii) -80°C to +20°C
-112°F to +68°C
 - (iii) -110°C to +0°C
-166°F to +32°F
- Absolute Pressure range:
1 – 17 bar (247 psi)
- Integrated 7" LCD display
- Data logging - 16G USB Flash Disk
- Accuracy up to +/- 2°C
- 6 mm quick connector
- Mains powered
- Super fast response time
- Excellent long term stability
- Resistant to condensation, particulate contamination, oil vapors and most chemicals
- Options
 - (i) integrated pressure sensor
 - (ii) Plug type (USA, EURO, UK, Australia)



Portable dew point meter, easy to install, easy to use. Simply connect the portable logger to your gas pipe via a 6 mm quick connect and start viewing / recording data. Measure pressure dew point and normal pressure dew at the same time point and temperature. With the optional integrated pressure sensor, you can also measure gas pressure.

The portable dew point meter is ideal for compressed air and inert gas systems up to 1.7 Mpa (24.6 psi) with refrigerant, desiccant, drum or membrane dryers. The fast response time ensures an accurate and up to date reading, giving you peace of mind that your system is under control. Up to 10+ points of dew point calibration and multi-point temperature compensation provides up to ± 2 °Ctd accuracy. Sensor calibration can be performed every 2 years (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



Specifications

Sensor

Sensor Technology Quartz (QCM), Alumina-Oxide or Polymer sensor (depending on the dew point range)

Sensor Filter Stainless steel mesh filter (filter level 30-45 um)

Contact us for other filter options

Measurement Range

Pressure Dew Point Range -60 to +60°C | -76°F to +140°F
 -80 to +20 °C | -112°F to +68°C
 -110 to +0°C | -166°F to +32°F

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

Pressure Measurement Range (optional) 0 to 17 bar

Accuracy

Dew Point Accuracy

- +60 to -60°C ±2%
- -60 to -110°C ±3%

Temperature Accuracy

- 0 to + 50°C ±0.3°C
- -40 to 0°C and +50 to +100°C ±0.5°C

Pressure Accuracy (@23°C) ±0.3% F.S

Pressure changes with temperature ±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

Display and Data Logging

Display 7" Colour touch screen

Data Logging Yes

Data recording Max 16G USB Flash Disk

Power Supply

Power Requirement 220vAC , 10 W

Electrical Connection M12 PG Plug

Electromagnetic Compatibility Meets IEC 61326-1

Working Environment

Operating Temperature 0 to +50°C
 32 to +122°F

Relative Humidity 0 to 95% RH

Minimum Gas Flow > 1L /min

Maximum System Pressure 17 bar (246 psi)

Other

Outputs Modbus RS485

Process Connection 6 mm stainless steel quick connector

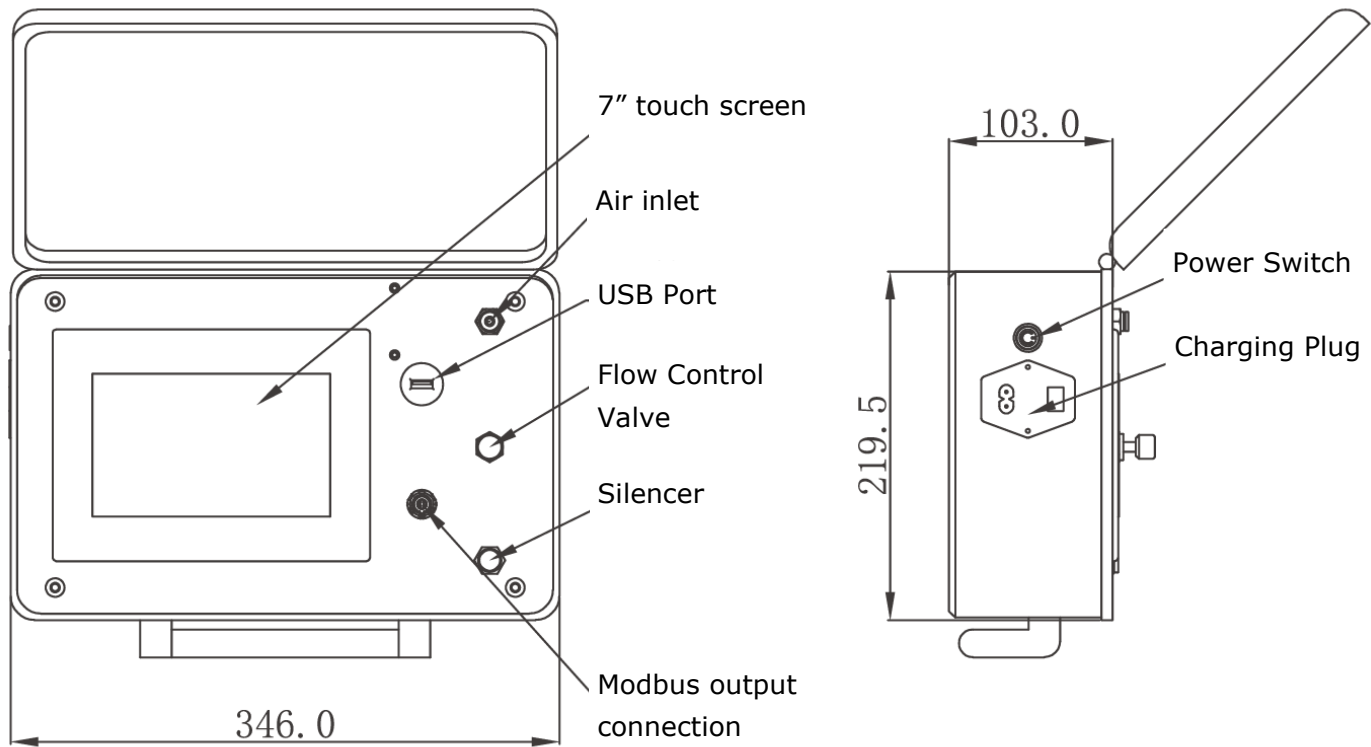
Casing Hard Plastic Carry Case

Alarm function No



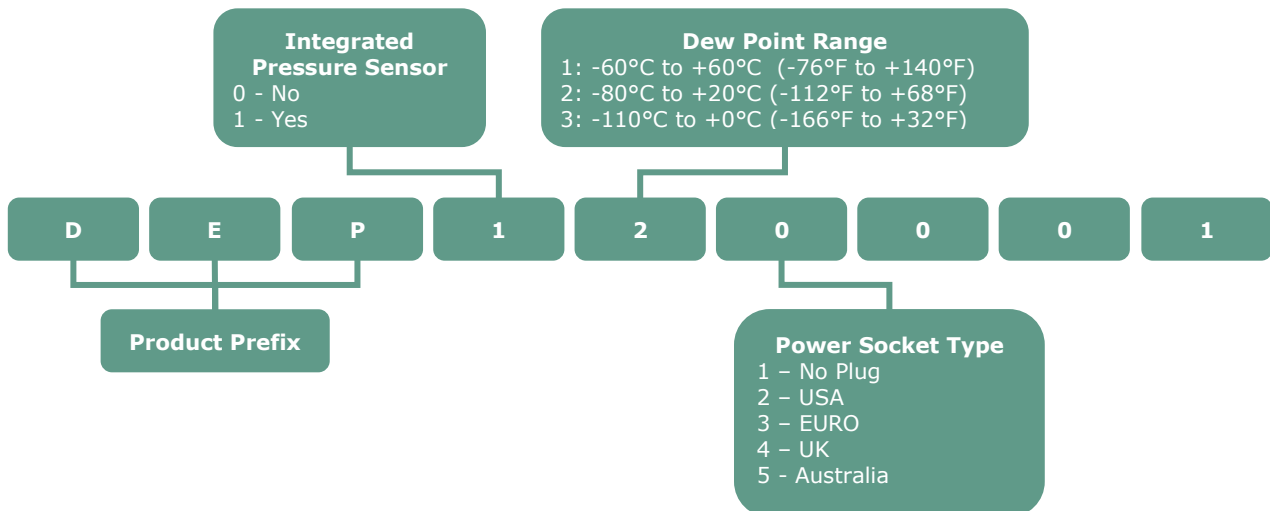


Dimensions (mm)



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



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