# Dew Point Sensor – W Series

## Wall mount dew point sensor down to -110°C (-166°F)

## Key Features

- Three dew point ranges:
  - -60°C to +60°C   |   -76°F to +140°F
  - -80°C to +20°C   |   -112°F to +68°F
  - -110°C to +20°C   |   -166°F to +68°F
- Two independent alarms
  - Built-in alarm - red/green light and siren
  - External alarm
- Pressure: 0 to 17 bar | 0 to 247 psi
- Touch screen display
- Power Supply: 110- 220vAC , 10 W
- Accuracy: up to ±2%
- Outputs: 4...20 mA and external alarm
- Measure: dew point, relative humidity, temperature and pressure (optional)



## About

With this 'all-in-one' wall mounted unit you can continuously monitor your dryer performance and system pressure (if fitted with the optional pressure sensor). Should an issue occur, the integrated alarm light will draw immediate attention.

The dew point sensor is resistant to condensation, particulate contamination, oil vapors and most chemicals.

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

## Applications

- Manufacturing and industrial use
- Gas Types: compressed air, nitrogen and inert gas systems
- Temporary or permanent installation
- Dryer types: refrigerant, drum, hybrid, desiccant, or membrane dryers
- Gas pressure up to 17 bar (246 psi)

# Specifications

| Sensor | |
| --- | --- |
| Sensor Technology | Quartz (QCM), Alumina-Oxde 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 | -110°C to +20°C (-166°F to +68°F) -80°C to +20°C (-112°F to +68°F) -60°C to +60°C (-76°F to +140°F) |
| Gas Temperature Measurement Range | -40 to +100 °C -40 to +212°F |
| Pressure Measurement Range | 0 to 17 bar (246 psi) |

| Accuracy | |
| --- | --- |
| Dew Point Accuracy | |
| • +60 to -80°C | ±2% |
| • -80 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 | |

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

| Power Supply | |
| --- | --- |
| Power Requirement | 110- 220vAC , 10 W |
| Electrical Connection | M12 PG Plug |
| Electromagnetic Compatibility | Meets IEC 61326-1 |

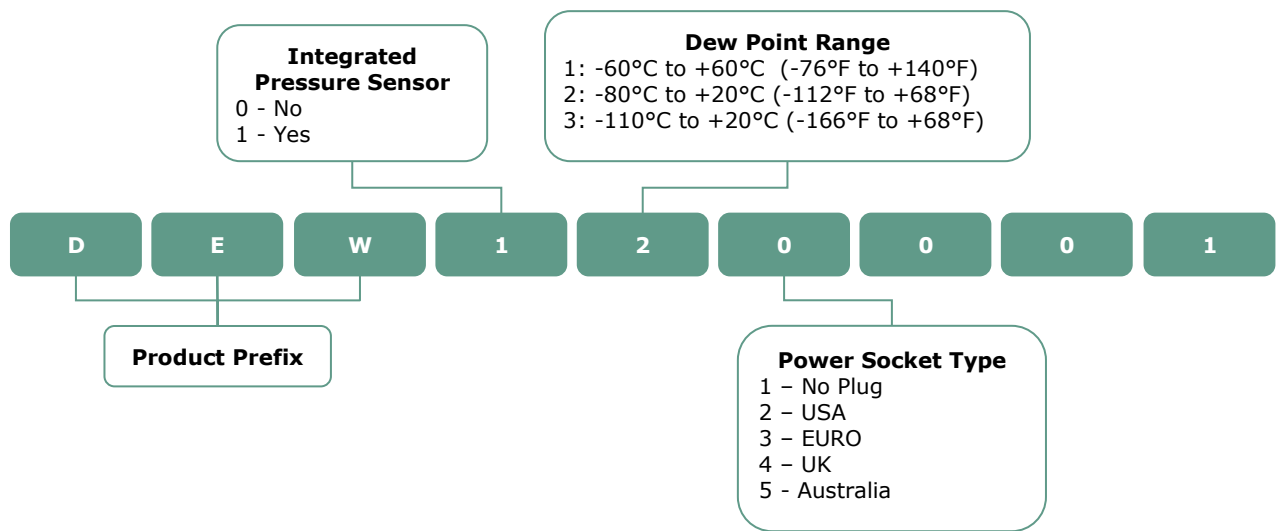| Other | |
| --- | --- |
| Outputs | None |
| Process Connection | 6 mm stainless steel quick connector |
| Casing | Plastic |
| Display | Colour touch screen |
| Alarm | Red/green light Buzzer |

# Dimensions (mm)
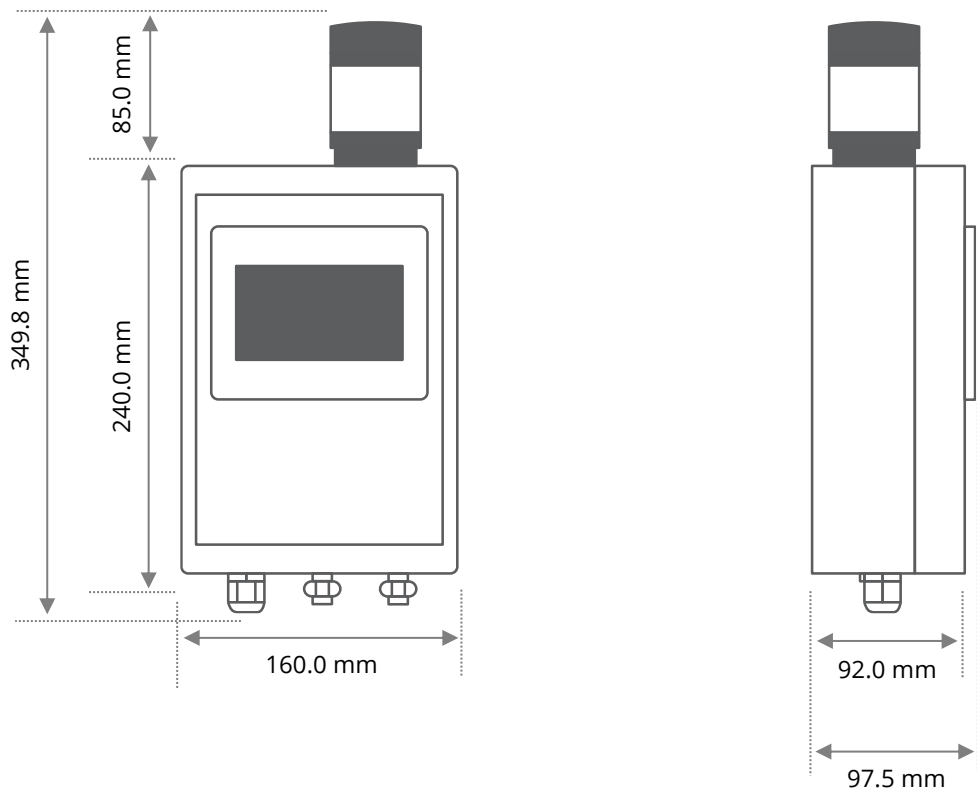


# How to Order

Buy online: www.compressedairalliance.com/products

**Integrated Pressure Sensor**
0 - No
1 - Yes

**Dew Point Range**
1: -60°C to +60°C (-76°F to +140°F)
2: -80°C to +20°C (-112°F to +68°F)
3: -110°C to +20°C (-166°F to +68°F)

| D | E | W | 1 | 2 | 0 | 0 | 0 | 1 |
|---|---|---|---|---|---|---|---|---|

**Product Prefix**

**Power Socket Type**
1 – No Plug
2 – USA
3 – EURO
4 – UK
5 - Australia

# Dew Point Sensor Product Range

### H Series Dew Point Sensor

Handheld / portable dew point sensor

**Pressure Dew Point Range**
-110°C to +60°C (-166°F to +140°F) or
-60°C to +60°C (-76°F to +140°F)

**Gas Contamination**
Minimal contamination

**Outputs**
USB - Type C

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

**Options**
None. The sensor comes with an integrated
pressure sensor, display and data logger

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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

**Outputs**
Modbus & 4-20mA

**Technology**
Alumina-Oxide sensor

**Options**
Integrated pressure sensor, in-built display,
data cable

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### 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

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### 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

**Outputs**
Modbus & 4-20mA

**Technology**
Polymer sensor

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

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### E Series Dew Point Meter

Outdoor dew point meter. IP67 rating

**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**
Modbus & 4-20mA

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

**Options**
Integrated pressure sensor