

# Easidew Transmitter

## 2-Wire Dew-Point Transmitter



The Easidew Transmitter is designed for ease of use, incorporating all the features needed to make installation and operation as simple as possible. For the first time, dew-point measurement is made as accessible as temperature and pressure with this fully configured, calibrated transmitter that can be instantly incorporated into your air or gas management and control system.

### Highlights

- 2-wire loop powered connection
- Dew point or ppm moisture content
- IP66 (NEMA 4)
- Excellent sensor protection
- Measurement range -100 to +20°C (-148 to +68°F)
- Operating temperature -40 to +60°C (-40 to +140°F)
- Fast response

### Technical Specifications

Performance									
<b>Measurement range (dp)</b>	-100 to +20°C (-148 to +68°F) dew point								
<b>Accuracy (dp)</b>	±2°C (±3.6°F) dew point								
<b>Response time</b>	5 mins to T95 (dry to wet)								
<b>Repeatability</b>	0.5°C (0.9°F) dew point								
Electrical output/input									
<b>Output signal</b>	4-20 mA (2-wire connection, current source) User configurable over range								
<b>Output</b>	Dew point, moisture content for ppm <sub>v</sub>								
<b>Output range</b>	Dew point: -100 to +20°C (-148 to +68°F) Moisture content in gas: 0-3000 ppm <sub>v</sub>								
<b>Supply voltage</b>	User configurable over range								
<b>Load resistance</b>	Max 250 Ω @ 12 V (500 Ω @ 24 V)								
<b>Current consumption</b>	20 mA max								
<b>Supply voltage influence</b>	±0.005% RH/V								
Operating conditions									
<b>Operating humidity</b>	0–100% RH								
<b>Operating temperature</b>	-40 to +60°C (-40 to +140°F)								
<b>Operating pressure</b>	45 MPa (450 barg / 6500 psig) max								
<b>Flow rate</b>	1 to 5 NI/min (2.1 to 10.6 scfh) mounted in standard sampling block; 0 to 10 m/sec (0 to 32.8 fps) direct insertion								
<b>Temperature coefficient</b>	Temp compensated across operating temp range								
Mechanical specification									
<b>Ingress protection</b>	IP66 in accordance with standard BS EN 60529:1992, and NEMA 4 in protection accordance with standard NEMA 250-2003								
<b>Housing material</b>	Stainless steel								
<b>Dimensions</b>	L=132mm x ø27mm (L=5.19" x ø1.00")								
<b>Filter</b>	HDPE Guard <10µm (80µm sint guard optional)								
<b>Mounting Thread</b>	5/8" - 18 UNF								
<b>Weight</b>	150g (5.29oz)								
<b>Electrical connections</b>	See table								
<b>Interchangeability</b>	Fully interchangeable transmitters								
<b>Fault conditions (factory programmed)</b>	<table border="1"> <thead> <tr> <th>Condition</th> <th>Output</th> </tr> </thead> <tbody> <tr> <td>Sensor fault</td> <td>23 mA</td> </tr> <tr> <td>Under-range dew point</td> <td>4 mA</td> </tr> <tr> <td>Over-range dew point</td> <td>20 mA</td> </tr> </tbody> </table>	Condition	Output	Sensor fault	23 mA	Under-range dew point	4 mA	Over-range dew point	20 mA
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### Dimensions

