

Easidew 34

Dew-Point Transmitter



The Easidew is a dew-point transmitter with a 3/4" process connection. It is designed for ease of use, incorporating all of the features needed to make installation and operation into your air or gas management system as simple as possible.

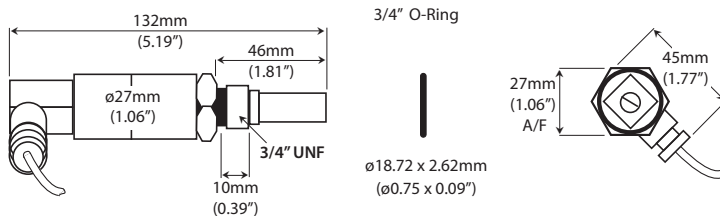
Michell's ceramic metal-oxide moisture sensor technology based transmitter is calibrated to international standards and is delivered with a traceable calibration certificate.

Highlights

- 3/4" UNF process connection
- Dew point or ppm_v moisture content
- 2-wire loop powered connection
- Rugged 316 stainless steel IP66 construction
- Measurement range -110...+20 °C (-148...+68 °F) dew point or -100...+20 °C (-166...+68 °F) dew point as standard
- Accuracy ±2 °C (±3.6 °F) dew point
- Calibration Certificate (NPL, NIST)

Dimensions

3/4" Process Connection



Please note: Michell Instruments adopts a continuous development program which sometimes necessitates specification changes without notice.
Issue No: Easidew 34_97318_V5.2_EN_0323

Technical Specifications

| Performance | | | | | | | | | |
|---|---|-----------|--------|--------------|-------|-----------------------|------|----------------------|-------|
| Measurement range | -100...+20 °C (-148...+68 °F) dew point -110...+20 °C (-166...+68 °F) dew point | | | | | | | | |
| Accuracy | ±2 °C (±3.6 °F) dew point | | | | | | | | |
| Response time | 5 mins to T95 (dry to wet) | | | | | | | | |
| Repeatability | 0.5 °C (0.9 °F) dew point | | | | | | | | |
| Calibration | Traceable 13-point calibration certificate | | | | | | | | |
| Electrical Specifications | | | | | | | | | |
| Output signal | 4...20 mA (2-wire connection, current source) User configurable over range | | | | | | | | |
| Output | Dew point or moisture content for ppm _v | | | | | | | | |
| Analog output scaled range | Dew point: -100...+20 °C (-148...+68 °F) Moisture content in gas: 0...3000 ppm _v Non-standard available upon request | | | | | | | | |
| Supply voltage | 12...28 V DC | | | | | | | | |
| Load resistance | Max 250 Ω @ 12 V (500 Ω @ 24 V) | | | | | | | | |
| Current consumption | 20 mA max | | | | | | | | |
| CE marked | Certified | | | | | | | | |
| Operating Specifications | | | | | | | | | |
| Operating temperature | -40...+60 °C (-40...+140 °F) | | | | | | | | |
| Compensated temperature range | -20...+50 °C (-4...+122 °F) NOTE: The transmitter accuracy statement is only valid for the temperature range: -20/+50 °C | | | | | | | | |
| Storage temperature | -40...+60 °C (-40...+140 °F) | | | | | | | | |
| Operating pressure | 45 MPa (450 barg/6526.7 psig) maximum | | | | | | | | |
| Overpressure rating | x2 operating pressure 90 MPa (900 barg/13053.4 psig) | | | | | | | | |
| Flow rate | 1...5 Nl/min (2.1...10.6 scfh) mounted in standard sampling block; 0...10m/sec (0...32.8 fps) direct insertion | | | | | | | | |
| Mechanical Specifications | | | | | | | | | |
| Ingress protection | IP66 in accordance with standard BS EN 60529:1992, NEMA 4 in protection accordance with standard NEMA 250-2003 | | | | | | | | |
| Housing material | 316 stainless steel | | | | | | | | |
| Dimensions | L=132 mm x ø45 mm (L=5.19" x ø1.77") (with connector) | | | | | | | | |
| Filter (sensor protection) | Standard: HDPE Guard <10µm Optional: 316 stainless steel sintered guard <80µm | | | | | | | | |
| Process connection and material | 3/4" - 16 UNF 316 stainless steel | | | | | | | | |
| Weight | 150 g (5.29 oz) | | | | | | | | |
| Interchangeability | Fully interchangeable transmitter | | | | | | | | |
| Electrical connections | Hirschmann GDS series (DIN 4350-C) | | | | | | | | |
| Diagnostic conditions (factory programmed) | <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 |
| Condition | Output | | | | | | | | |
| Sensor fault | 23 mA | | | | | | | | |
| Under-range dew point | 4 mA | | | | | | | | |
| Over-range dew point | 20 mA | | | | | | | | |

Electrical Connections

| 4...20 mA connections 2-wire | |
|------------------------------|-----------|
| Pin 1 | 4...20 mA |
| Pin 3 | POWER |