

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.

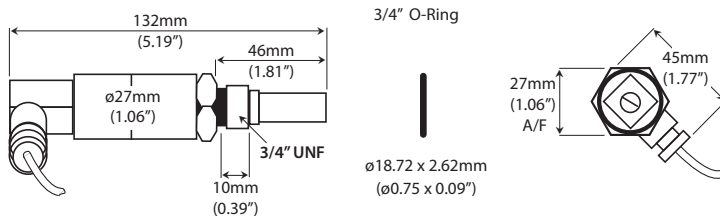
Michell's ceramic metal-oxide moisture sensor technology based transmitter is calibrated to international standards and is delivered with a traceable calibration certificate.

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)	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	