Easidew I.S.

Dew-Point Transmitter (For Hazardous Area Applications)

The Easidew I.S. (intrinsically safe) transmitter is a dew-point transmitter designed and certified for use in hazardous area applications (flammable or explosive gases) in all regions with certification from: IECEx, QPS, ATEX and UKCA.

The Easidew I.S. is available with a 5/8" UNF process connection or alternatively with a G1/2" BSP or 3/4" UNF 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

- IECEx, QPS, ATEX, UKCA certified transmitter for use in hazardous areas
- 5/8" UNF, G1/2" BSP or 3/4" UNF process connection
- Dew-point or ppm, moisture content
- 2-wire loop powered connection
- Rugged 316 stainless steel IP66 construction
- Measurement range -100...+20 °C (-148...+68 °F)
- Accuracy ±2 °Cdp (±3.6 °Fdp)
- Calibration Certificate (NPL, NIST)

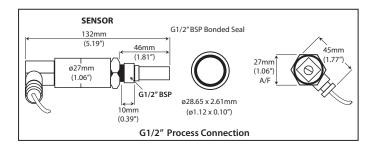
Applications

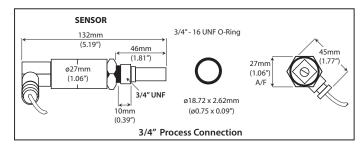
- Moisture in Liquids
- Compressed air
- Medical Gas
- CNG Stations
- Trace Moisture

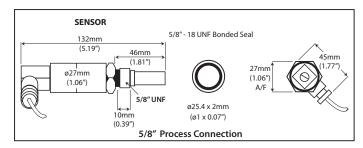


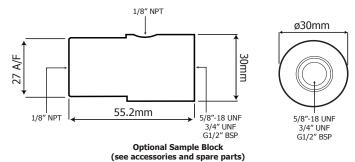
Easidew I.S.

Dimensions









Electrical Connections

420 mA connections 2-wire			
Pin 1	420 mA		
Pin 3	POWER		

Please note: Michell Instruments adopts a continuous development program which sometimes necessitates speci ication changes without notice.

Issue No: Easidew IS_97168_V8.6_EN_0424

Technical Specifications

Temperature Range

Storage Temperature

Operating pressure

Overpressure rating

Flow rate

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 7-point calibration certificate				
Electrical Specifications					
Output signal	420 mA (2-wire connection, current source) User configurable over range				
Output	Dew point or moisture content for $\ensuremath{ppm}_{\ensuremath{V}}$				
Analog output scaled range	Dew point: -100+20 °C (-148+68 °F) Moisture content in gas: 03000 ppm _v Non-standard available upon request				
Supply voltage	1228 V DC				
Load resistance	Max 250 Ω @ 12 V (500 Ω @ 24 V)				
Current consumption	20 mA max				
Compliances	CE & UKCA				
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

52.5 MPa (525 barg/7614 psig) maximum

x2 operating pressure 90 MPa (900 barg/13053 psig)

1...5 NI/min mounted in standard sampling block;

-40...+60 °C (-40...+140 °F)

0...10m/sec 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			
Hazardous area certificates *		°C+70 °C)		
Housing material	316 stainless steel			
Dimensions	L=132 mm x ø45 mm (with connector)			
Filter (sensor protection)	Standard: HDPE Guard <10µm Optional: 316 stainless steel sintered guard <80µm			
Process connection and material	5/8"- 18 UNF Alternatives: G1/2" BSP or 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 Sensor fault Under-range dew point Over-range dew point	Output 23 mA 4 mA 20 mA		
Approved galvanic isolators	KFD0-CS-EX1.50P KFD0-CS-EX2.50P KFD2-STC4-EX1.H			

^{*} The end user has a responsibility to ensure that when installed in the Hazardous Area, the system is compliant with relevant local and international installation Standards for the use of equipment in explosive atmospheres.

