

Easidew Transmitter

2-Wire Dew-Point Transmitter



The Easidew is a dew-point transmitter with a 5/8" 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 Advanced Ceramic Moisture Sensor technology based transmitter is calibrated to international standards and is delivered with a traceable calibration certificate.

Highlights

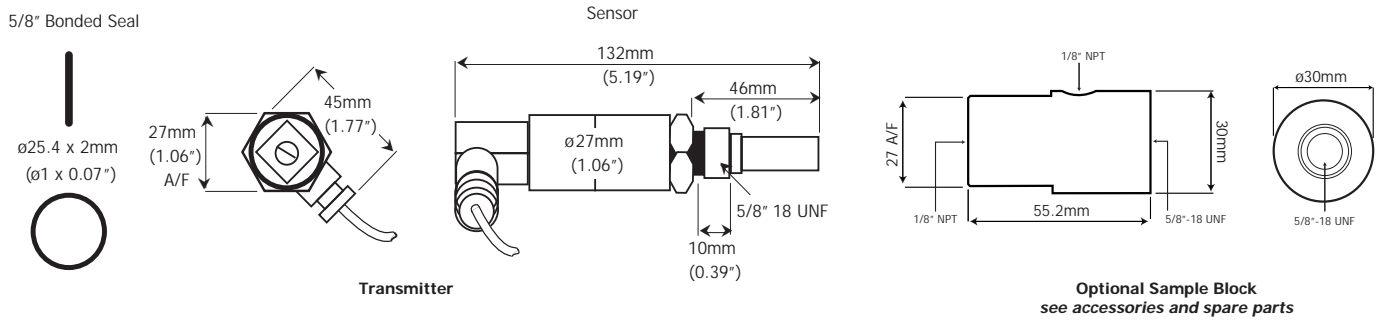
- 5/8" UNF process connection
- Dew point or ppm_v moisture content
- 2-wire loop powered connection
- Rugged 316 stainless steel IP66 construction
- Measurement range -100 to +20°C
- Accuracy ±2°Cdp
- Calibration Certificate (NPL, NIST)

Technical Specifications

Performance		
Measurement range	-100 to +20°C dew point	
Accuracy	±2°C dew point	
Response time	5 mins to T95 (dry to wet)	
Repeatability	0.5°C dew point	
Calibration	Traceable 13 point calibration	
Electrical Specifications		
Output signal	4-20 mA (2-wire connection, current source) User configurable over range	
Output	Dew point, moisture content for ppm _v	
Analog output scaled range	Dew point: -100 to +20°C Moisture content in gas: 0-3000 ppm _v Non-standard available upon request	
Supply voltage	12 to 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 to +60°C	
Operating pressure	45 MPa (450 barg / 6500 psig) max	
Flow rate	1 to 5 NI/min mounted in standard sampling block; 0 to 10 m/sec direct insertion	
Temperature coefficient	Temperature compensated across operating temperature range	
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=132mm x ø45mm (with connector)	
Filter (sensor protection)	Standard: HDPE guard <10µm Optional: 316 stainless steel sintered guard <80µm	
Process connection and material	5/8" - 18 UNF 316 stainless steel	
Weight	150g	
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

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Dimensions



Electrical Connections

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

Ordering Codes

To construct the order code, select the relevant feature from the tables below, starting with the base model, which is {Feature A} and then add on options to create a string: {Feature A} + {Feature B} + {Feature C}

Order example: EA2-TX+(-100/+20C)+HD

Easidew Transmitter, 2-wire, 4-20 mA output, measurement range -100 to +20°Cdp, HDPE guard

Base Model {Feature A}		Protection {Feature C}	
Easidew Transmitter	EA2-TX	Standard HDPE guard (with protection against fine particulate (<10µm))	HD
Range {Feature B}		Stainless steel sintered guard	SS
-100 to +20°Cdp range	(100/+20C)		
Non-standard measurement range:	(v/wx-yz)		
v=zero value, w=full scale value, x=unit (C=°Cdp, F=°Fdp, P=ppm _v) y=pressure for ppm _v conversion in bar/psi, z=pressure unit (PG=psig, PA=psia, BG=barg, BA=bara) blank=0 barg/0 psig			

Accessories and Spare Parts

	Process Connection Size 5/8"
Sensor Protectors	Pack of 10 replacement HDPE guards for protection against fine particulate <10µm
	Stainless steel sintered guard replacement for protection against fine particulate <80µm
	Pack of 10 particulate filter cartridges for protection against fine particulate <25µm (for Sampler kits)
Connection Adaptors	3/4" UNF to 5/8" UNF adaptor
	G1/2" BSP to 5/8" UNF adaptor
	1/2" BSP to 5/8" UNF thread adapter
Sampling Block	5/8" 316 stainless steel sample block (with 1/8" NPT inlet & outlet ports)
	5/8" Sampler kit- For atmospheric or pressure dp measurements (145 psig/10 barg max)
	5/8" HP sampler kit – For atmospheric or pressure dp measurements (2900 psig/200 barg max)
Other Parts	PTFE sample tube – 6mm outside diameter, thick-walled (for sampler kit) (if more than the standard 0.5mm is required)
	Sensor cable – standard length 0.8m with mini-DIN mating socket (for NON I.S. sensors) Additional cable length above 0.8m
	Additional/replacement transmitter labels (per 2 labels)
	5/8" Bonded Seal for process connection (pack of 5)
	Sensor connector
	Communications kit for Easidew Transmitter