

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.

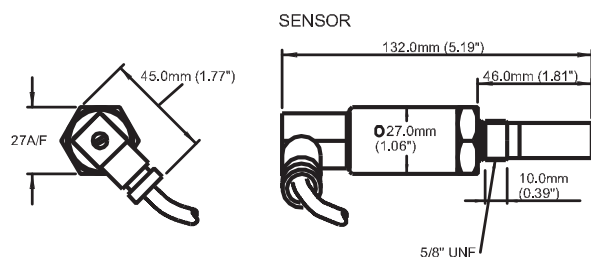
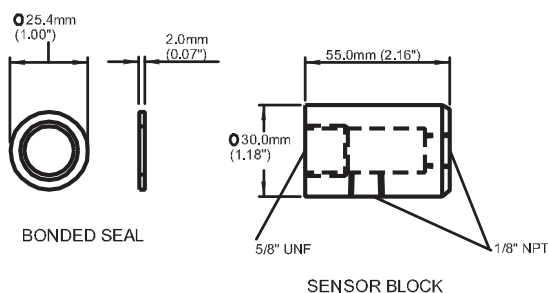
Highlights

- 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		
Measurement range (dp)	-100 to +20°C (-148 to +68°F) dew point	
Accuracy (dp)	±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	
Electrical output/input		
Output signal	4-20 mA (2-wire connection, current source) User configurable over range	
Output	Dew point, moisture content for ppm _v	
Output range	Dew point: -100 to +20°C (-148 to +68°F) Moisture content in gas: 0-3000 ppm _v	
Supply voltage	12-28 VDC	
Load resistance	Max 250 Ω @ 12 V (500 Ω @ 24 V)	
Current consumption	20 mA max	
Operating conditions		
Operating humidity	0–100% RH	
Operating temperature	-40 to +60°C (-40 to +140°F)	
Operating pressure	45 MPa (450 barg / 6500 psig) max	
Flow rate	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	
Temperature coefficient	Temp compensated across operating temp range	
Mechanical specification		
Ingress protection	IP66 in accordance with standard BS EN 60529:1992, and NEMA 4 in protection accordance with standard NEMA 250-2003	
Housing material	Stainless steel	
Dimensions	L=132mm x ø27mm (L=5.19" x ø1.00")	
Filter	HDPE Guard <10µm (80µm sint guard optional)	
Mounting Thread	5/8" - 18 UNF	
Weight	150g (5.29oz)	
Electrical connections	See table	
Interchangeability	Fully interchangeable transmitter	
Diagnostic conditions (factory programmed)	Condition	Output
	Sensor fault	23 mA
	Under-range dew point	4 mA
	Over-range dew point	20 mA

Dimensions



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Accessories and Spare Parts

Pack of 10 replacement HDPE guards	EA2-HDPE
SS sintered guard replacement	SSG
Easidew communications kit for EA2	EA2-CK
SS sample block (5/8" UNF thread with 1/8" NPT ports)	CSB
3/4"-16 UNF to 5/8" UNF male adapter, SS (Panametrics thread)	APT-PAN
G 1/2" to 5/8" UNF male adapter, SS (E&H or GEI thread)	APT-GEI
1/2" BSP to 5/8" UNF thread adapter	APT-BSP
Cable, 0.8m (2.62') length with fittings + additional cable	EA2-CAB-XX
Easidew Sampler (see Accessories Section for details)	EA2-SAM
10 pk particulate filter cartridges (for SS filter unit (9996061))	SSF-PF-10PK
6mm (0.24") O.D thick walled PTFE sample tube	PTFE-XX

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+HD

Easidew Transmitter, 2-wire, 4-20 mA output, measurement range -100 to +20°C (-148 to +68°F) dp, HDPE guard

