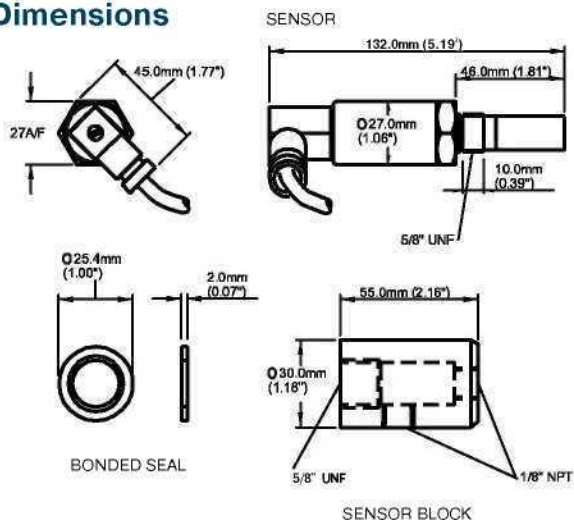# Easidew Transmitter
2-wire dew point transmitter

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(NEMA4)
- Excellent sensor protection
- Measurement range -100 to +20℃
- Operating temperature -40 to +60℃
- Fast response

Dimensions

Technical Specifications

Performance	
Measurement range (dew point)	-100 to +20℃ dew point
Accuracy (dew point)	±2℃ dew point
Response time	5 mins to T95 (dry to wet)
Repeatability	0.5℃ dew point
Electrical output/input	
Output signal	4-20 mA (2-wire) current source, configurable over the entire range Dew point -100 to + 20℃ -148to+68˚F ppm_v 0 - 3000 ppm_v output or non-standard dew point range must be specified at time of order
Supply voltage	12-28VDC
Load resistance	Max 250Ω @ 12V 500Ω @ 24V
Current consumption	20 mA max
Supply voltage influence	±0.005% RH/V
Operating conditions	
Operating humidity	0-100% RH
Operating temperature	-40 to +60℃
Operating pressure	45 MPa (450 Barg) max.
Flow rate	1 to 5 Nlmin^{-1} mounted in standard sampling block; 0 to 10 msec^{-1} direct insertion
Temperature coefficient	Temperature compensated across operating temperature 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=132mmx ø27mm
Filter	HDPE Guard <10 μm 80μm sintered guard (optional)
Weight	150g
Electrical connections	See table
Interchangeability	Fully interchangeable transmitters

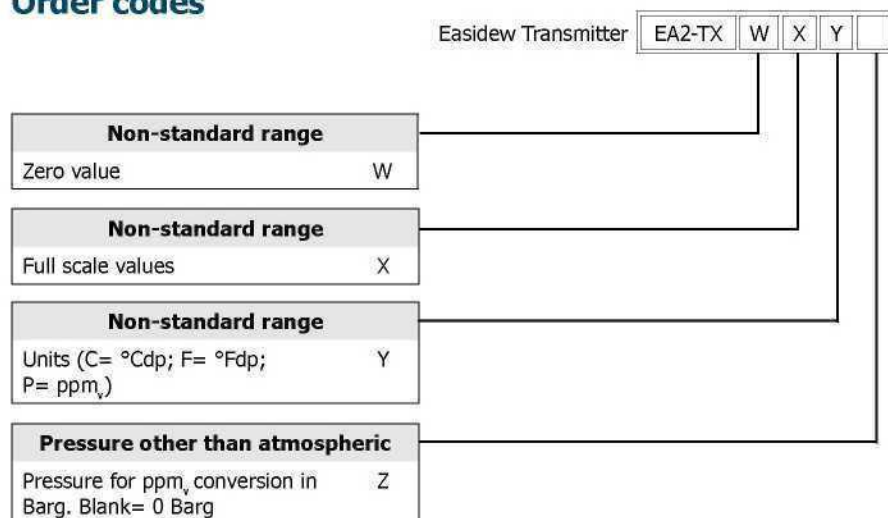| Fault conditions (factory programmed)	Condition	Output
	Sensor fault	23mA
	Under-range dew point	4mA
	Over range dew point	20mA

Easidew Transmitter

Options and accessories

Panel Meter An economical panel or bench-mounted meter with digital display, analogue outputs and dual alarm relays. Display and output configurable as dew point (°C or °F) or ppm moisture content. — **EA2-OL-100**

Easidew Sampler A self-contained sampling system, with filtration and flow control, for measurement of pressure or atmospheric dew point — **EA2-SAM**

Sample Block Stainless Steel sample block to contain Easidew Transmitter, with 1/8" NPT ports — **CSB**

Replacement HDPE Guard Pack of 10 HDPE Guards — **EA2-HDPE-10**

Sintered Guard Stainless Steel sintered guard, for protection of ceramic sensor (in place of standard HDPE Guard) — **9980237**

Easidew Communication Kit For connection to Easidew Transmitter and reconfiguration of range and output via Michell Configuration Software (available free of charge from Michell) — **EA2-CK**

Electrical Connections

Connections	
Pin 1	4-20mA
Pin 3	POWER

Order codes

Easidew Transmitter | EA2-TX | W | X | Y |

Non-standard range	
Zero value	W

Non-standard range	
Full scale values	X

Non-standard range	
Units (C= °Cdp; F= °Fdp; P= ppm$_v$)	Y

Pressure other than atmospheric	
Pressure for ppm$_v$ conversion in Barg. Blank= 0 Barg	Z

Example:
Standard product: EA2-TX
Non-standard product: EA2-TXWXY
Michell Instruments 2-wire dew point transmitter, Easidew TX with zero value, full scale values, units of measurement and zero Barg.

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