

# Easidew TX I.S.

## ATEX Certified Dew-Point Transmitter

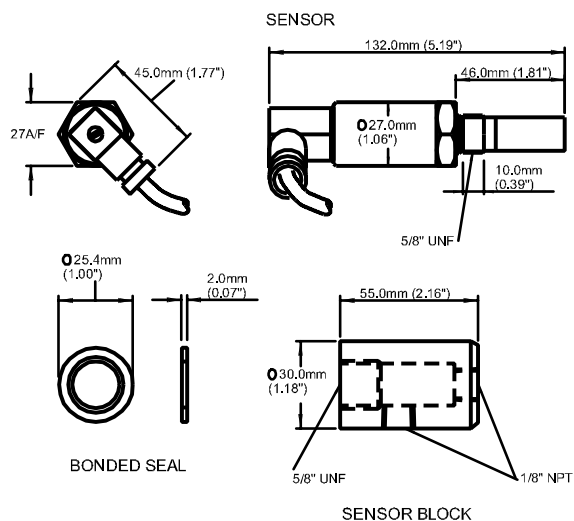


An ATEX certified, 2-wire, rugged impedance dew-point transmitter for continuous measurement in hazardous area applications.

### Highlights

- ATEX FM/CSA certified
- 2-wire loop powered connection
- Dew point or ppm moisture content
- IP66 (NEMA 4)
- Excellent sensor protection
- Wide measurement range, calibrated
- -100 to +20°C dew point
- Operating temperature: -40°C to +60°C
- Fast response

### Dimensions



### Technical Specifications

Performance		
Measurement range (dew point)	-100 to +20°C dew point	
Accuracy (dew point)	±2°C dew point	
Response time	5 mins to T95 (dry to wet)	
Repeatability	0.5°C dew point	
Electrical output/input		
Output signal	4-20 mA (2-wire) current source, configurable over the entire range Dew point -100 to + 20°C -148 to +68°F ppm <sub>v</sub> 0 - 3000 ppm <sub>v</sub> 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	20mA max	
Supply voltage influence	±0.005% RH/V	
Operating conditions		
Operating humidity	0–100% RH	
Operating temperature	-40 to +60°C	
Operating pressure	45 MPa (450 Barg) max.	
Flow rate	1 to 5 Nlmin <sup>-1</sup> mounted in standard sampling block; 0 to 10 msec <sup>-1</sup> direct insertion	
Temperature coefficient	Temperature compensated across operating temperature range	
Mechanical specification		
ATEX Certificate	Ex II 1G EX ia IIC T4	
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	
Filter	HDPE Guard <10 µm 80 µm sintered guard (optional)	
Weight	150g	
Interchangeability	Fully interchangeable transmitters	
Fault conditions (factory programmed)	Condition	Output
	Sensor fault	23mA
	Under-range dew point	4mA
	Over range dew point	20mA
Approved galvanic isolators	KFD2-CR-EX1.20200 KFD2-CR-EX1.30200 KFD0-CS-EX1.50P MTL5041 MTL5040	

# Easidew TX I.S.

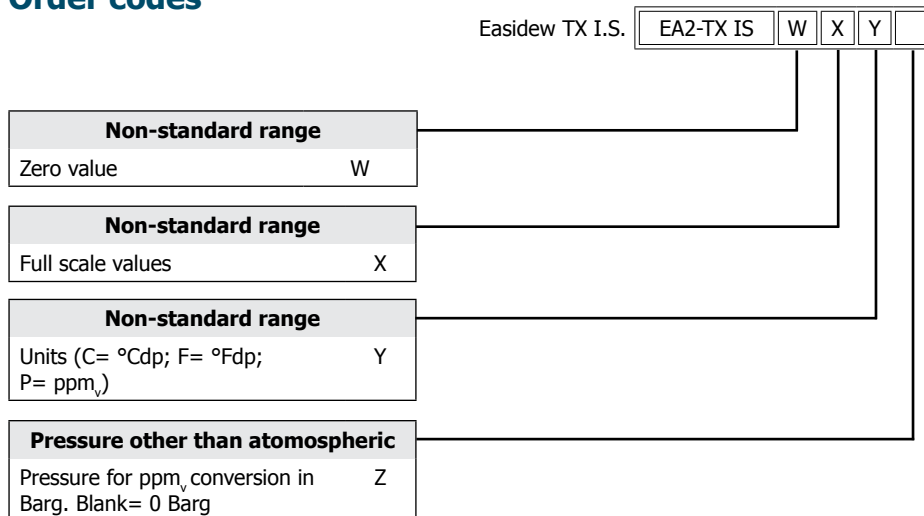
## Options and accessories

<b>Panel Meter</b> 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.	<b>EA2-OL-100</b>
<b>Easidew Sampler</b> A self-contained sampling system, with filtration and flow control, for measurement of pressure or atmospheric dew point	<b>EA2-SAM</b>
<b>Sample Block</b> Stainless Steel sample block to contain Easidew Transmitter, with 1/8" NPT ports	<b>CSB</b>
<b>Replacement HDPE Guard</b> Pack of 10 HDPE Guards	<b>EA2-HDPE-10</b>
<b>Sintered Guard</b> Stainless Steel sintered guard, for protection of ceramic sensor (in place of standard HDPE Guard)	<b>9980237</b>
<b>Easidew Communication Kit</b> For connection to Easidew Transmitter and reconfiguration of range and output via Michell Configuration Software (available free of charge from Michell)	<b>EA2-CK</b>

## Electrical Connections

Connections	
Pin 1	4-20mA
Pin 3	POWER

## Order codes



### Example:

**Standard product:** EA2-TX IS

**Non-standard product:** EA2-TX IS W X Y

Michell Instruments 2-wire dew point transmitter, Easidew TX I.S. with zero value, full scale values, units of measurement and zero Barg.

**Please note:** Michell Instruments adopts a continuous development programme which sometimes necessitates specification changes without notice. Please contact us for latest version. Ref: Easidew TX I.S\_0309