Easidew TX I.S. ATEX, FM/CSA Certified Dew-Point Transmitter

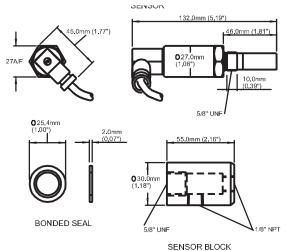


An ATEX, FM/CSA certified, 2-wire, rugged impedance dewpoint transmitter for continuous measurement in hazardous area applications.

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 / -148 to +68°F dew point
- Operating temperature: -40 to +60°C / -40 to +140°F
- Fast response

Dimensions



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Performance		
Measurement range (dew point)	-100 to +20°C (-148 to +68°F) dew point	
Accuracy (dew point)	±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) current sourc configurable over the entire rar Dew point -100 to + 20°C -148 to +68°F 0 - 3000 ppm, ppm, output or non-standard de range must be specified at time	ige ew-point
Supply voltage	12-28 VDC	
Load resistance	Max 250 Ω @ 12 V / 500 Ω @ 2	24 V
Current consumption	20 mA max	
Supply voltage influence	±0.005% RH/V	
Operating conditions		
Operating humidity	0–100% RH	
Operating temperature	-40 to +60°C (-40 to +140°F)	
Operating pressure	45 MPa (450 barg / 6500 psi) n	nax
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 ft/sec) direct insertion	
Temperature coefficient	Temperature compensated across operating temperature range	
Mechanical specificatio	n	
Hazardous Area Certificates	ATEX - Ex II 1G EX ia IIC T4 FM - I.S. I 1 ABCD T4 (ta = +60°C) CSA - IS Class 1 Div 1 Groups ABCD 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/L=5.19" x	ø1.06″
Filter	HDPE Guard <10 µm 80 µm sintered guard (optional)	
Mounting Thread	5/8" – 18 UNF	
Weight	150g / 5.29oz	
Interchangeability	Fully interchangeable transmitters	
Fault conditions (factory programmed)	Condition Sensor fault Under-range dew point Over-range dew point	Output 23 mA 4 mA 20 mA
Approved galvanic isolators	KFD2-CR-EX1.20200 KFD2-CR-EX1.30200 KFD0-CS-EX1.50P KFD0-CS-EX2.50P KFD2-STC4-EX1.H MTL5041, MTL5040	

Technical Specifications

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MICHELL Instruments

Easidew TX I.S.

Options and accessories	
Panel Meter An economical panel or bench- mounted meter with digital display, analog 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
Galvanic Isolator KFDO-CS-ED1.50p galvanic isolator to allow connection of the Easidew TX IS complying with ATEX, FM or CSA regulations	9934042
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

El	ectrical	Connections
	CCCICAI	

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

Order codes

2	-wire dew-point transmitter	EA2-TX IS W X Y Z
Non-standard range		
Zero value	W	
Non-standard range		
Full scale values	Х	
Non-standard range		
Units (C= °Cdp; F= °Fdp; P= ppm _v)	Y	
Pressure other than atmospheric	c	
Pressure for ppm_v conversion in barg / psi.	Z	
Blank= 0 barg / 0 psi		

Example: Standard product: EA2-TX IS Non-standard products: EA2-TX IS -60 / 20°C 2-wire dew-point transmitter with range -60 to +20°C @ 0 barg EA2-TX IS -78 / 68°F 2-wire dew-point transmitter with range -78 to +68°F @ 0 barg EA2-TX IS 0/1000 p2 2-wire dew-point transmitter with range 0-1000 ppm @ 2 barg

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Please note: Michell Instruments adopts a continuous development program which sometimes necessitates specification changes without notice. Please contact us for latest version. Ref: Easidew TX I.S_97168_V1.1_UK_1010

