Easidew PRO I.S. Intrinsically Safe Dew-Point Transmitter



The Easidew PRO I.S. intrinsically safe dew-point transmitter has been developed to provide a rugged version of the Easidew TX I.S.

The Easidew PRO I.S. shares its electrical design with the Easidew TX I.S. and therefore offers the same features. It has been certified by ATEX for use in hazardous area zone 0.

Highlights

- 2-wire connection
- ±2°C / ±3.6°F accuracy
- Output configurable in ppm, moisture content
 Optional HDPE Guard
- IP66 / NEMA 4
- Improved measurement resolution and range for temperature compensation
- Configuration by digital communications

Technical Specifica	tions			
Per	formance			
Measurement range (dew point)	-100 to +20°C / -148 to + point	-68°F dew		
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 source, configurable over the entire range Dew point -100 to + 20°C -148 to +68°F 0 - 3000 ppm, ppm, output or non-standard dew-point range must be specified at time of order			
Supply voltage	12-28 VDC			
Load resistance	Max 250 Ω @ 12 V / 500 Ω @ 24 V			
Current consumption	23 mA max (depending or output)	n signal		
Operati	ng conditions			
Operating humidity	0-100% RH			
Operating temperature	-40 to +60°C / -40 to +140°F			
Operating pressure	45 MPa (450 barg / 6500 psi) max			
Flow rate	1 to 5 NI/min mounted in standard sampling block; 0 to 10 m/sec direct insertion			
Temperature coefficient	Temperature compensated operating temperature rar			
Mechanic	al specification			
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			
Filter	80 µm sintered guard HDPE Guard <10 µm (optional)			
Weight	1.27kg / 2.8lbs			
Electrical connections	Screw terminal			
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			



Easidew PRO I.S.

Options and accessories Panel Meter An economical panel or bench-

Panel Meter An economical panel or benchmounted meter with digital display, analog outputs and dual alarm relays. Display and output configurable as dew point (°C or °F) or ppm moisture content.

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

Sample Block Stainless Steel sample block to contain Easidew Transmitter, with 1/8" NPT ports **Optional HDPE Guard** Pack of 10 HDPE Guards

to replace sintered guard **Galvanic Isolator** KFDO-CS-ED1.50p galvanic

isolator to allow connection of the Easidew PRO IS complying with ATEX, FM or CSA regulations

Replacement Sintered Guard Stainless Steel sintered guard, for protection of ceramic sensor

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

Electrical Connections

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

Dimensions

EA2-OL-100

EA2-SAM

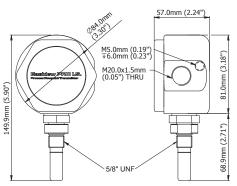
EA2-HDPE-10

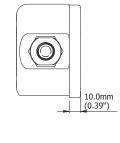
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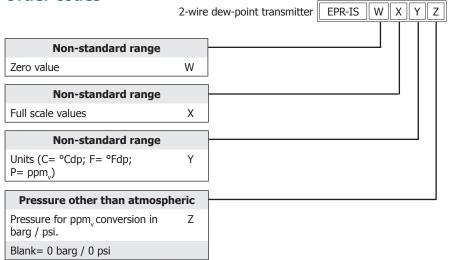
EA2-CK

CSB





Order codes



Example:

Standard product: EPR-IS

Non-standard products: EPR-IS -60 / 20°C

2-wire dew-point transmitter with range $\,$ -60 to +20°C @ 0 barg

EPR-IS -78 / 68°F

2-wire dew-point transmitter with range -78 to +68°F @ 0 barg

EPR-IS 0/1000 p2

2-wire dew-point transmitter with range 0-1000 ppm @ 2 barg

Please note: Michell Instruments adopts a continuous development program which sometimes necessitates specification changes without notice. Please contact us for latest version. Ref: Easidew PRO IS_97208_V2_UK_1009

