# **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 Specifications			
Performance			
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 $\Omega$ @ 12 V / 500 $\Omega$ @ 24 V		
Current consumption	23 mA max (depending on signal output)		
Operating conditions			
Operating humidity	erating 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 across operating temperature range		
Mechanical 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		
<b>Electrical connections</b>	Screw terminal		
Fault conditions (factory programmed)	<b>Condition</b> 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 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** 

**EA2-OL-100** 

EA2-SAM

EA2-HDPE-10

9934042

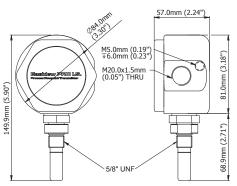
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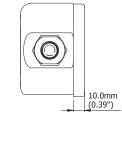
EA2-CK

**CSB** 

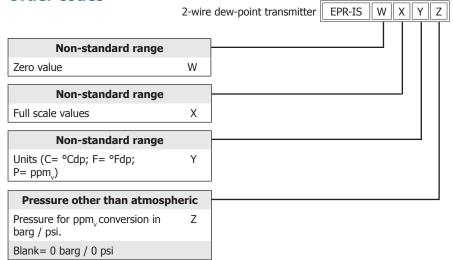
4-20mA connections 2-wire		
Pin 1	4-20 mA	
Pin 3	POWER	

#### **Dimensions**





#### **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

邮箱: sales@seasy-ist.com 网址: www.seasy-ist.com