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_v 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 +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 source, configurable over the entire range Dew point -100 to + 20°C -148 to +68°F 0 - 3000 ppm_v ppm_v 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	20 mA
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) max
Flow rate	1 to 5 Nl/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	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
Filter	80 µm sintered guard HDPE Guard <10 µm (optional)
Weight	1.27kg / 2.8lbs
Electrical connections	Screw terminal
Interchangeability	Fully interchangeable transmitters

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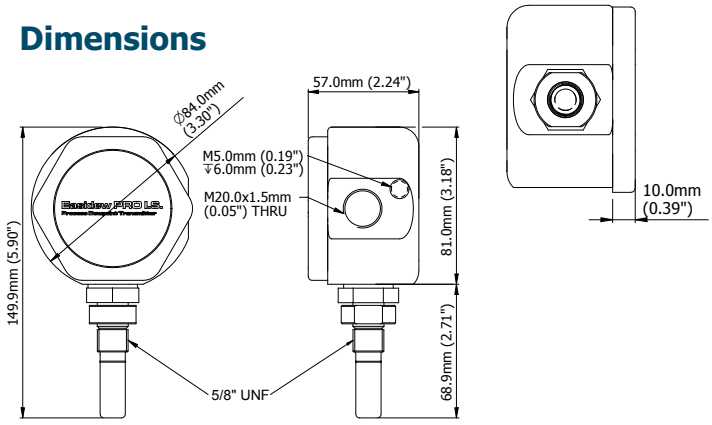
Options and accessories

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**
Optional HDPE Guard Pack of 10 HDPE Guards to replace sintered guard	**EA2-HDPE-10**
Replacement Sintered Guard Stainless Steel sintered guard, for protection of ceramic sensor	**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

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

Dimensions



Order codes

2-wire dew-point transmitter | EPR-IS | W | X | Y | Z |

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 / psi.	Z
Blank= 0 barg / 0 psi	

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_V1_UK_1009

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