Easidew Transmitter

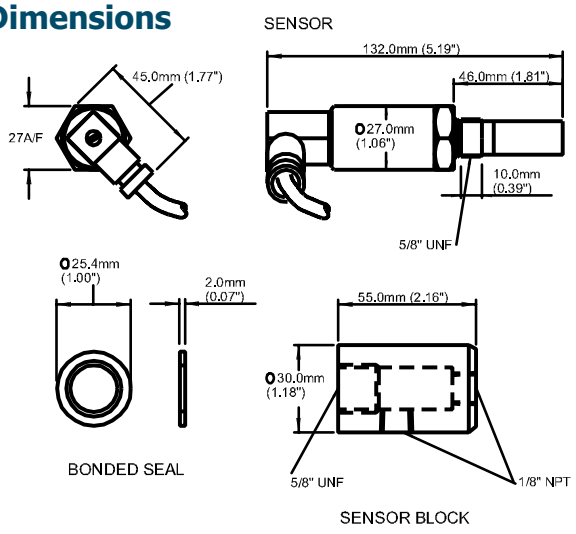
2-Wire Dew-Point Transmitter

The Easidew Transmitter is designed for ease of use, incorporating all the features needed to make installation and operation as simple as possible. For the first time, dew-point measurement is made as accessible as temperature and pressure with this fully configured, calibrated transmitter that can be instantly incorporated into your air or gas management and control system.

Highlights

- 2-wire loop powered connection
- Dew point or ppm moisture content
- IP66 (NEMA 4)
- Excellent sensor protection
- Measurement range -100 to +20°C / -148 to +68°F
- Operating temperature -40 to +60°C / -40 to +140°F
- Fast response

Dimensions



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 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) 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	
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 ø 1.00"
Filter	HDPE Guard <10 µm 80µm sintered guard (optional)
Weight	150g / 5.29oz
Electrical connections	See table
Interchangeability	Fully interchangeable transmitters
Fault conditions (factory programmed)	**Condition** / **Output** Sensor fault / 23 mA Under-range dew point / 4 mA Over-range dew point / 20 mA

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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**
Replacement HDPE Guard Pack of 10 HDPE Guards	**EA2-HDPE-10**
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**

Electrical Connections

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

Order codes

2-wire dew-point transmitter | EA2-TX | 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: EA2-TX
Non-standard products: EA2-TX -60 / 20°C
2-wire dew-point transmitter with range -60 to +20°C @ 0 barg
EA2-TX -78 / 68°F
2-wire dew-point transmitter with range -78 to +68°F @ 0 barg
EA2-TX 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 Transmitter_97166_V1_UK_1009