

# Easidew 34

## Dew-Point Transmitter



The Easidew is a dew-point transmitter with a 3/4" process connection. It is designed for ease of use, incorporating all of the features needed to make installation and operation into your air or gas management system as simple as possible.

Michell's Advanced Ceramic Moisture Sensor technology based transmitter is calibrated to international standards and is delivered with a traceable calibration certificate.

### Highlights

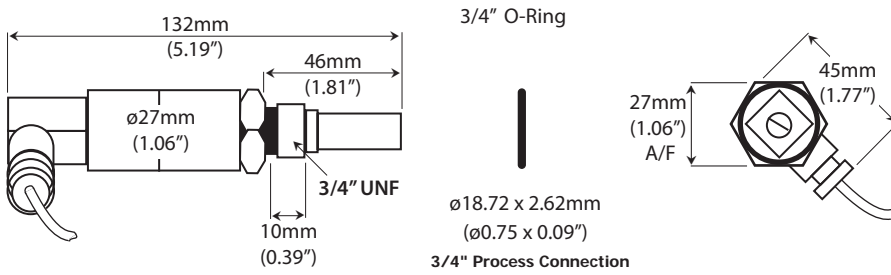
- 3/4" UNF process connection
- Dew point or ppm<sub>v</sub> moisture content
- 2-wire loop powered connection
- Rugged 316 stainless steel IP66 construction
- Measurement range -110 to + 20°Cdp or -100 to +20°Cdp as a standard
- Accuracy ±2°Cdp
- Calibration Certificate (NPL, NIST)

### Technical Specifications

Performance		
Measurement range	-100 to +20°C dew point -110 to +20°C dew point	
Accuracy	±2°C dew point	
Response time	5 mins to T95 (dry to wet)	
Repeatability	0.5°C dew point	
Calibration	Traceable 7-point calibration certificate	
Electrical Specifications		
Output signal	4-20 mA (2-wire connection, current source) User configurable over range	
Output	Dew point or moisture content for ppm <sub>v</sub>	
Analog output scaled range	Dew point: -100 to +20°C Moisture content in gas: 0-3000 ppm <sub>v</sub> Non-standard available upon request	
Supply voltage	12 to 28 V DC	
Load resistance	Max 250 Ω @ 12 V (500 Ω @ 24 V)	
Current consumption	20 mA max	
CE marked	Certified	
Operating Specifications		
Operating temperature	-40 to +60°C	
Operating pressure	45 MPa (450 barg) maximum	
Overpressure rating	x2 operating pressure 90 MPa (900 barg)	
Flow rate	1 to 5 Nl/min mounted in standard sampling block; 0 to 10m/sec direct insertion	
Temperature coefficient	Temperature compensated across operating temperature range	
Mechanical Specifications		
Ingress protection	IP66 in accordance with standard BS EN 60529:1992, NEMA 4 in protection accordance with standard NEMA 250-2003	
Housing material	316 stainless steel	
Dimensions	L=132mm x ø45mm (with connector)	
Filter (sensor protection)	Standard: HDPE Guard <10µm Optional: 316 stainless steel sintered guard <80µm	
Process connection and material	3/4" - 16 UNF 316 stainless steel	
Weight	150g	
Interchangeability	Fully interchangeable transmitter	
Electrical connections	Hirschmann GDS series (DIN 4350-C)	
Diagnostic conditions (factory programmed)	Condition	Output
	Sensor fault	23 mA
	Under-range dew point	4 mA
	Over-range dew point	20 mA

# Easidew 34

## Dimensions



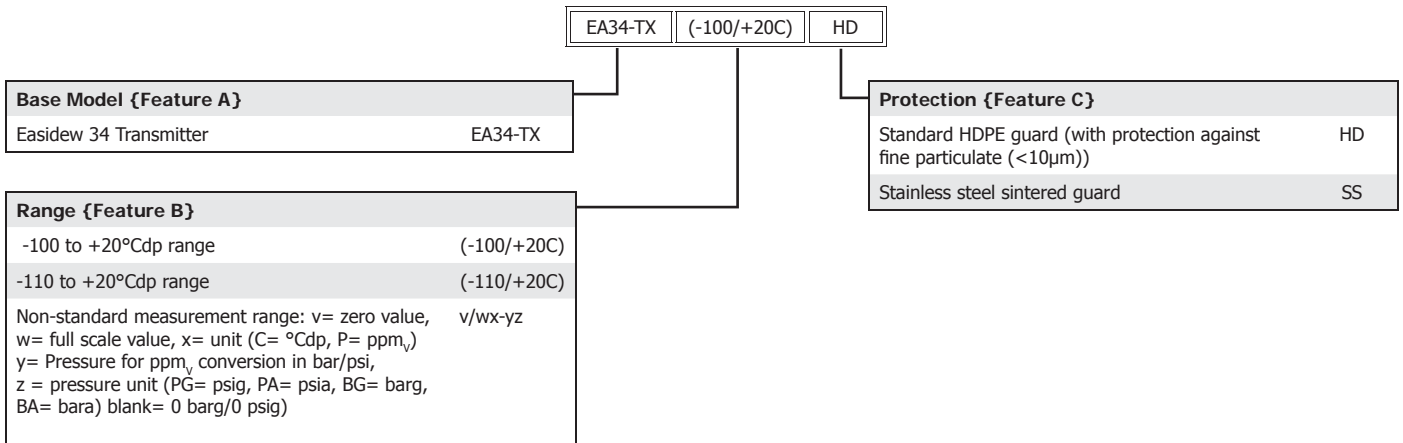
## Electrical Connections

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

## Ordering Codes

To construct the order code, select the relevant feature from the tables below, starting with the base model, which is {Feature A} and then add on options to create a string: {Feature A} + {Feature B} + {Feature C}

**Order example:** EA34-TX + (-100/+20C) + HD  
 Easidew 34 Transmitter, 2-wire, 4-20 mA output, measurement range -100 to +20°Cdp, HDPE guard



## Accessories and Spare Parts

		Process Connection Size 3/4"
<b>Sensor Protectors</b>	Pack of 10 replacement HDPE guards for protection against fine particulate <10µm	EA2-HDPE
	Stainless steel sintered guard replacement for protection against fine particulate <80µm	SSG
<b>Other Parts</b>	Sensor cable – 0.8m with mini-DIN mating socket (for NON I.S. sensors)	EA2-CAB-08
	Sensor cable - total length (if more than the standard 0.8m is required)	EA2-CAB-xx
	Additional/replacement transmitter labels (per 2 labels)	GEN-LABEL
	O-rings/Bonded seals for process connection – pack of 5	3/4-OR
	Easidew communications kit for EA34	EA2-CK

**Michell Instruments** 48 Lancaster Way Business Park, Ely, Cambridgeshire, CB6 3NW  
 Tel: +44 (0) 1353 658000, Fax: +44 (0) 1353 658199, Email: info@michell.com, Web: [www.michell.com/uk](http://www.michell.com/uk)

Please note: Michell Instruments adopts a continuous development program which sometimes necessitates specification changes without notice. Please contact us for latest version. Issue No: Easidew 34 Transmitter\_97318\_V4\_UK\_1014