Easidew I.S.

Dew-Point Transmitter (For Hazardous Area Applications)



The Easidew I.S. (intrinsically safe) transmitter is a dew-point transmitter designed and certified for use in hazardous area applications (flammable or explosive gases) in all regions with certification from: IECEx, CSA, FM and ATEX.

The Easidew I.S. is available with a 5/8" UNF process connection or alternatively with a G1/2" BSP or 3/4" UNF 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

- IECEx, CSA, FM, ATEX certified transmitter for use in hazardous areas
- 5/8" UNF, G1/2" BSP or 3/4" UNF process connection
- Dew-point or ppm, moisture content
- 2-wire loop powered connection
- Rugged 316 stainless steel IP66 construction
- Measurement range −100 to +20°C
- Accuracy ±2°Cdp
- Calibration Certificate (NPL, NIST)

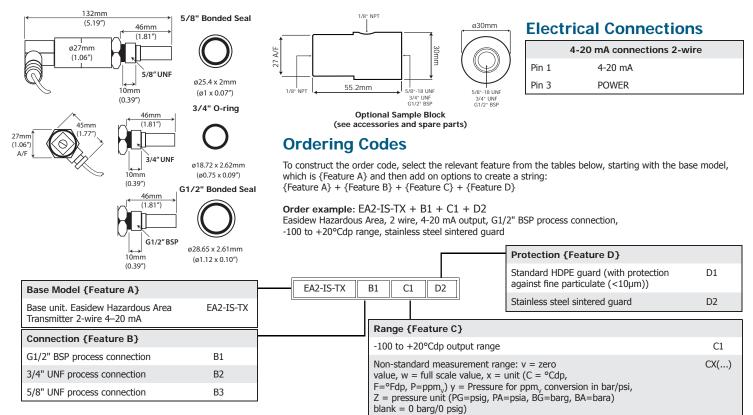
Technical Specifications

Performance					
Measurement range	−100 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	n certificate			
Electrical Specifications					
Output signal	4–20 mA (2-wire connection, current source) User configurable over range				
Output	Dew point or moisture cont	ent for ppm _v			
Analog output scaled range	Dew point: -100 to +20°C Moisture content in gas: 0-3000 ppm _v 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 +70°C				
Operating pressure	45 MPa (450 barg) maximum				
Overpressure rating	x2 operating pressure 90 MPa (900 barg)				
Flow rate	1 to 5 NI/min mounted in standard sampling block; 0 to 10m/sec direct insertion				
Temperature coefficient	Temperature compensated temperature range	across operating			
Mechanical Specifications					
Ingress protection	IP66 in accordance with standard BS EN 60529:1992, NEMA 4 in protection accordance with standard NEMA 250–2003				
Hazardous area certificates	ATEX: II 1 G Ex ia IIC T4 (-20° C \leq Ta \leq + 70° C) FM: IS / I / I / ABCD / T4 Ta = + 70° C CSA: - IS Class I Div I Groups ABCD T4 IECEx: Ex ia IIC T4 (-20° C \leq Ta \leq + 70° C)				
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	5/8"- 18 UNF Alternatives: G1/2" BSP or 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 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			
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Dimensions

Easidew I.S.



Accessories and Spare Parts

		Process Connection Size		
		G1/2"	3/4"	5/8"
Sensor Protectors	Pack of 10 replacement HDPE guards for protection against fine particulate $<10\mu m$	EA2-HDPE	EA2-HDPE	EA2-HDPE
	Stainless steel sintered guard replacement for protection against fine particulate $<80\mu m$	SSG	SSG	SSG
	Pack of 10 particulate filter cartridges for protection against fine particulate <25 μ m (for Sampler kits)	SSF-PF-10PK		SSF-PF-10PK
Connection Adaptors	3/4" UNF to 5/8" UNF adaptor			APT-PAN
	G 1/2" BSP to 5/8" UNF adaptor			APT-GEI
	1/2" NPT to 5/8" UNF adaptor			APT-TSO
Sampling Blocks	G1/2" 316 stainless steel sample block (with 1/8" NPT inlet & outlet ports)	SB-12		
	G1/2" 316 stainless steel sample block with filter (with 1/8" BSP & 1/4" BSP ports)	A000351		
	3/4" 316 stainless steel sample block with (1/8 NPT inlet & outlet ports)		SB-34	
	5/8" 316 stainless steel sample block (with 1/8" NPT inlet & outlet ports)			CSB
	5/8" Sampler kit – For atmospheric or pressure dp measurements (145 psig / 10 barg max)			EA2-SAM
	5/8" HP (high pressure) Sampler kit – For atmospheric or pressure dp measurements (2900 psig / 200 barg max)			EA2-SAM-HP
Other Parts PTFE the s Cabl Addi Oddi O-rir Sens	KFD0-CS-EX1.50P galvanic isolator (for Easidew I.S Pepperl & Fuchs)	GI-PF-01	GI-PF-01	GI-PF-01
	PTFE sample tube $-$ 6mm outside diameter, thick-walled (for Sampler kit) (if more than the standard 0.5mm is required)	PTFE-xx		PTFE-xx
	Cable – 0.8m with mini-DIN mating socket (for NON I.S. sensors)	EA2-CAB-08	EA2-CAB-08	EA2-CAB-08
	Additional cable – total length (if more than the standard 0.8m is required)	EA2-CAB-xx	EA2-CAB-xx	EA2-CAB-xx
	Additional/replacement transmitter labels - 2 labels	GEN-LABEL	GEN-LABEL	GEN-LABEL
	O-rings/Bonded seals for process connection – 5 seals	BS-12-PK5	OR-34-PK5	BS-58-PK5
	Sensor connector	EA2-SC	EA2-SC	EA2-SC
	Communications kit for Easidew I.S.	EA2-CK	EA2-CK	EA2-CK

