Foxboro® IDP10M

Modbus differential pressure transmitter

The Foxboro[®] IDP10M Modbus Pressure Transmitter is an accurate and intelligent transmitter that offers precise measurement of differential pressure in a compact, robust package. As a fully digital transmitter, the product is networked using Modbus over Ethernet or a selectable RS485/232 serial line.

Easy to install and operate, any Modbus master can access and control a large number of these transmitters. The Foxboro[®] Modbus Pressure Transmitter is a natural choice in a wide variety of oil, gas, water and industrial applications.



schneider-electric.com/en/product-range

Life Is On



Specifications

Features						
Optional Analog Output	0 - 20mA, 12 bit, sinking Control of measured variable for PID logic control of RTU					
LCD Interface	Two button control, 2-line interface with 13 characters					
Communications						
Serial Port	RS232/485 configurable, 1200 to 38400 baud					
Serial Protocol	Modbus RTU					
Ethernet Port	10BaseT, terminal block connection					
Ethernet Protocols ¹	Modbus/UDP, Modbus RTU in UDP					
Performance Specifications ¹						
Pressure Accuracy ²	±0.06% for Spans ≥10% URL ±[0.025 + 0.0035 (URL/Span)]% for Spans <10% URL Add ±0.02% for Span Code E					
Stability	<±0.05% of URL per year over 5-year period					
Analog Output Accuracy	 ±0.15% of Full Scale at 25°C (77°F) ±0.25% of Full Scale over Temperature Range 					
Physical Specifications						
Power	9 to 30 Vdc Supply 76 mW with RS-232 or RS-485 Serial 200 mW with Ethernet LAN 600 mW with Analog Output externally powered					
Mass	3.5kg (7.8lb) without process connectors					
Environmental	5% RH to 95%, non-condensing - 40°C (- 40°F) to 70°C (158°F)					

1 Zero-Based Calibrations; Stainless Steel Sensor w/Silicone Fluid; Under Reference Operating Conditions unless otherwise Specified; URL = Upper Range Limit and Span = Calibrated Span.

2 Includes Linearity, Hysteresis, and Repeatability.

Specifications – continued

Certifications

cCSAus Explosionproo	f Class I. Div. 1 Groups B.	. C and D Hazardous Locations

- cCSAus Explosionproof Class I, Div. 2 Groups A, B, C and D Hazardous Locations
- Temperature code T5 at maximum ambient, 70°C
- Provides non-incendive field circuits for RTD

CSA certified to the following standards:

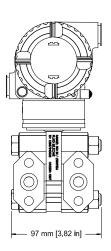
- CSA Std. C22.2 No. 213-M1987 Class I, Division 2 Hazardous Locations
- CSA Std. C22.2 No. 142-M1987 Process Control Equipment
- UL Std. No. 1604 Class I and II, Division 2; Class III Hazardous (Classified) Locations
- UL Std No. 916 Energy Management Equipment

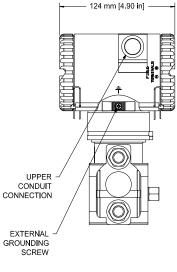
Disclaimer: Schneider Electric reserves the right to change product specifications. For more information visit www.schneider-electric.com.

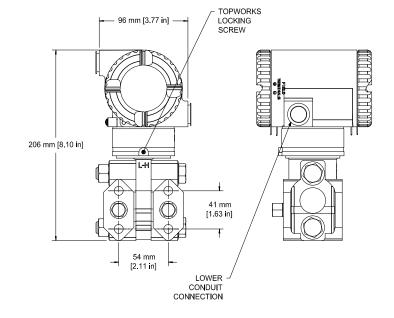
Model Code

Model	Product Description					
IDP10M	Differential Pressure Transmitter with Modbus RTU protocol					
Code	Process Cover	Sensor Material	Sensor Fill Fluid	Bolts		
2	316 SS	316L SS	Silicone	CS-B7		
Code	Span Limit					
	КРа	inH2O				
A	0.12 to 7.5 kPa	0.5 to 30	0.5 to 30			
В	0.87 to 50	3.5 to 200				
С	7 to 210	28 to 840				
	Мра	PSI				
D	0.07 to 2.1	10 to 300				
E	0.7 to 21	100 to 3000				
Code	Process Connector Type					
0	1/4 NPT Internal Thread in Process Covers					
Code	Transmitter Housing Material	Conduit Entry				
1	Epoxy, coated, Aluminium	1/2 - 14 NPT				
Code	Approvals					
U	cCSAus Explosion proof Class 1, Div. 1 & Class1, Div 2, Groups A, B, C and D. Approved for Hazardous locations					
Code	Options					
0	None					
1	RS-232 Serial Comms Cable, 10 ft (3 m)					
2	Ethernet Comms Cable, 10 ft (3 m)					
Code	Display					
Ν	None					
А	Digital Indicator with Internal Pushbuttons and Window Cover					









Life Is On Schneider

1 Conduit connection 1/2 NPT both sides; unused connection is sealed with supplied metal plug. Note: Topworks can be rotated to any position within one turn counter clockwise of the fully tightened position.

schneider-electric.com/en/product-range

Foxboro by Schneider Electric 38 Neponset Avenue Foxboro, MA 02035 USA Toll free within the USA 1-866-764-6477 Global +1-508-549-2424

© 2017 Schneider Electric. All Rights Reserved. Life is On Schneider Electric and Foxboro are trademarks and the property of Schneider Electric SE, its subsidiaries and affiliated companies. All other trademarks are the property of their respective owners. July 2017. 998-20062439_GMA-US