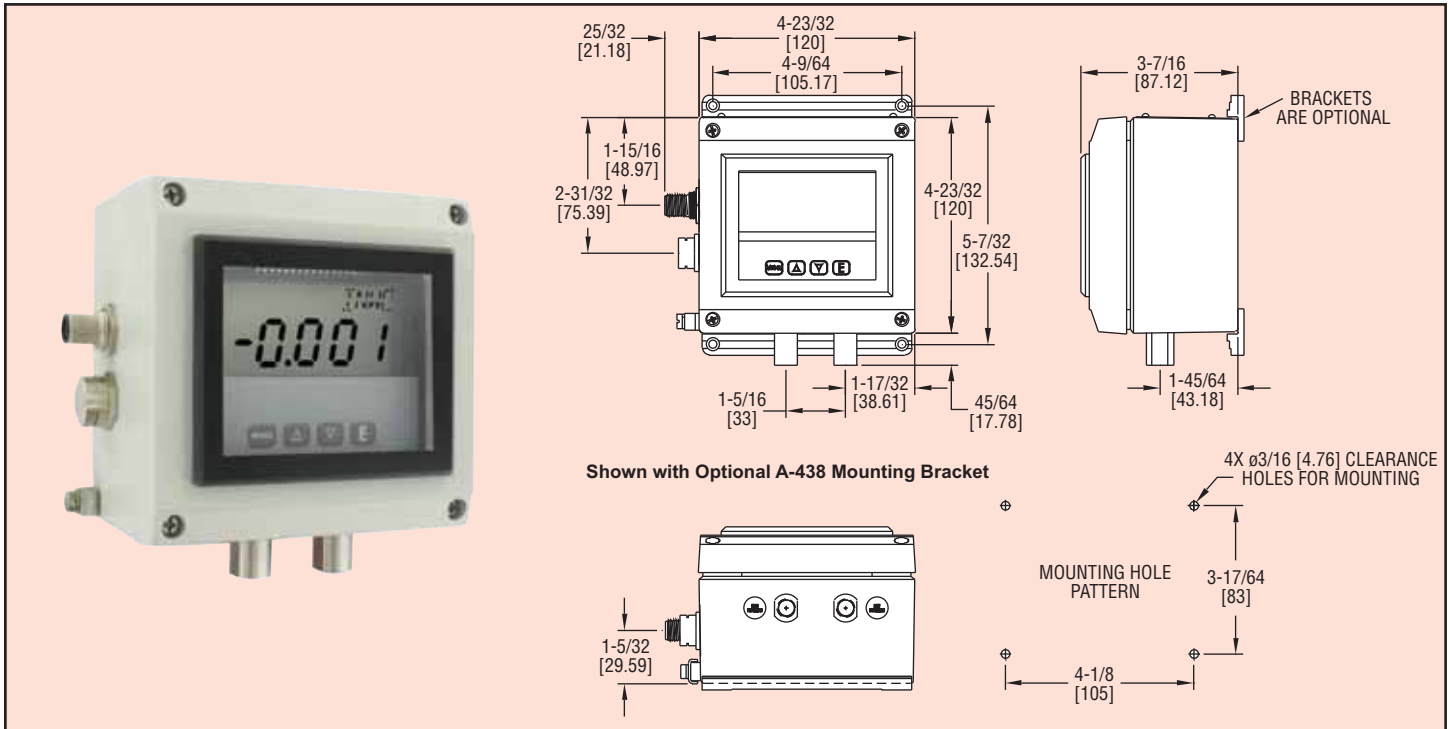




Series
ISDP

Intrinsically Safe Differential Pressure Transmitter

For Hazardous Zone Pressure and Flow Applications



The ISDP Differential Pressure Transmitter provides a 4-20 mA process output, a robust NEMA 4X enclosure, plus a large LCD display that can be programmed to read in pressure, velocity or flow. The ISDP offers simplified programming via a Menu key that enables the user to select: security level; English or Metric engineering units; pressure, velocity or flow operation, K-factor for use with various Pitot tubes and flow sensors, circular or rectangular duct size for volumetric flow operation plus many more. The Series ISDP Differential Pressure Transmitter is powered on its two wire loop with 10-35 VDC via its integral M-12 four pin male connector. The ISDP provides a 0.5% full scale accuracy on ranges from 0.25" w.c. to 100" w.c. as well as bi-directional models up to 10" w.c. These features make the Series ISDP Differential Pressure Transmitter the ideal instrument for monitoring pressures or air flows in hazardous zones having a Class I Div. I Groups A, B, C, D; Class II Div. I Groups E, F, G; Class III Div. I ratings.

Model	Range
ISDP-002	0 - 0.25" w.c.
ISDP-004	0 - 1" w.c.
ISDP-006	0 - 5" w.c.
ISDP-007	0 - 10" w.c.
ISDP-008	0 - 25" w.c.
ISDP-009	0 - 50" w.c.
ISDP-010	0 - 100" w.c.
ISDP-012	-0.25 / +0.25" w.c.
ISDP-014	-1.0 / +1.0" w.c.
ISDP-015	-2.5 / +2.5" w.c.
ISDP-016	-5.0 / +5.0" w.c.
ISDP-017	-10 / +10" w.c.

ACCESSORIES

A-231, 16' (5 m) Shielded Cable with 4 Pin Female M-12 Connection
 A-295, Female 4 Pin M-12 to Cable Gland Connector
 MTL5041, Intrinsically Safe Galvanic Isolator
 MTL7706, Intrinsically Safe Zener Barrier
 A-438, Surface Mounting Brackets

SPECIFICATIONS

Service: Air and non-corrosive gases.
Wetted Materials: Ranges 5" and greater: glass, PVC, silicon, alumina ceramic, epoxy, RTV, gold, aluminum, stainless steel and nickel; Ranges 1" and lower: stainless steel, silicone, gold and ceramic.
Housing Materials: Aluminum, glass.
Accuracy: $\pm 0.5\%$ at 77°F (25°C) including hysteresis and repeatability (after 1 hour warm-up).
Stability: $< \pm 1\%$ per year.
Pressure Limits: Ranges ≤ 2.5 in. w.c. = 2 psi; 5": 5 psi; 10": 5 psi; 25": 5 psi; 50": 5 psi; 100": 9 psi.
Temperature Limits: -40 to 160°F (-40 to 71.1°C).
Compensated Temperature Limits: 32 to 140°F (0 to 60°C).
Thermal Effects: 0.020%/°F (0.036/°C) from 77°F (25°C).
Power Requirements: 10-35 VDC.

Output Signal: 4-20 mA DC.

Zero & Span Adjustments: Accessible via menus.

Response Time: 250 ms (damping set to 1).

Display: 4 digit LCD 0.6" height.

Electrical Connections: M-12 4 PIN Connector.

Process Connections: 1/8" female NPT.

Enclosure Rating: Designed to meet NEMA 4X (IP66).

Mounting Orientation: Mount unit in horizontal plane.

Weight: 2 lb 10 oz (1.19 kg).

Agency Approvals: FM Intrinsically Safe CLI Div I GR: A, B, C, D; CLII Div I GR: E, F, G; CLIII Div I. CE: CENELEC EN 61326/55024: 2003; IEC 61000-4-2/3/4/6: 2001/2006/2004/2005; CENELEC EN 55011: 2006; 2004/108/EC EMC Directive.

NEW PRODUCT!



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