# HAZARDOUS LOCATIONS

### ASHCROFT INTRINSICALLY SAFE DIFFERENTIAL PRESSURE TRANSMITTER



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HAZARDOUS LOCATIONS

IXLDP

ASHCROF

IXLdp

**NASHCROFT** 

#### DESCRIPTION

The Ashcroft Model IXLdp (XFM option) is an intrinsically safe, industrial-quality, differential pressure transmitter for use on air and other noncorrosive gases. The Model IXLdp is available with accuracies of 0.25% and 0.50% in pressure ranges of 0.1 "W.C. to 200 "W.C. uni-directional or bi-directional.

#### FEATURES

- 100 psig static line pressure
- 0.25% or 0.5% accuracy down to 0.05 "W.C."
- Uni-directional or bidirectional ranges
- 300 Series cast stainless steel body
- NEMA 4X
- NIST certificate included

#### SPECIFICATIONS

Supply Voltage	12-36 VDC	Operating Temperature -20° to 185°F (-29° to 85°C)	
Accuracy	0.25% or 0.5%	Conduit Connection	Two 1/2" female
Signal Output	4-20 mA @ 545Ω	Process Connection	Two 1/4" NPT female
Area	Intrinsically Safe Class I, II, III;Div	Enclosure Rating	NEMA 4X
	1 and 2, Groups A through G Non-	Static Pressure	100 psig max.
	incendive Class I, Div 2, Groups A	Media	Clean, dry, noncorrosive gas
	through D; Class II, Div 2, Groups F,	Proof Pressure	20 psid
	G, Class III	Burst pressure	50 psid
Enitiy Parameters	Vmax=30V, Imax=100mA, Po=1 W,	Weight	2 lb (0.9 Kg)
	Ci=50nf, Li=0µh	Approvals	FM - US only
Response Time	250 ms	Warranty	1 year

#### DIMENSIONS



#### INSTALLATION

The transducer should be used with clean, dry air or other dry, noncorrosive gases. The unit should be mounted with #8 or #10 screws using the three mounting feet provided. The transducer can be mounted in any orientation with virtually no effect on calibration. Any minor zero pressure offsets that are encountered can be adjusted using the zero-adjust potentiometer. The high-and low-pressure connection ports are plugged to avoid debris entering the unit. The plugs should be left in place until the tubing and fittings are connected. The two 1/4" NPT pressure connections should be sealed to the transducer housing using Teflon<sup>®</sup> tape. Do not use dope-type sealant.

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CAUTION: Intrinsically safe devices require the use of an intrinsic safety barrier when applied in hazardous locations. Provide wiring and grounding strictly in accordance with manufacturer's instructions. When the Model IXLdp transmitter is combined with the Model MTL7706+ intrinsic safety barrier, total cable capacitance between the two must be limited to 0.12 µF, and total cable inductance must be limited to 4.0 mH (equivalent to 2700'/823m maximum Belden® #8760 18/2 shielded twisted pair cable 0.18 µH/FT, 44 pF/FT).



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877-826-9037 USA