

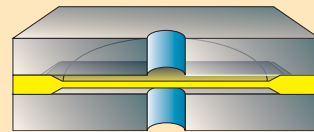
Exclusive IXLdp Features

- 100 psi static line pressure
- Offering 0.25% accuracy down to 0.05" of water column
- A wide assortment of uni- and bi-directional ranges available
- Nonstandard ranges available
- OEM board level products entertained
- 300 series cast stainless steel body
- NEMA 4X

Model IXLdp Transmitter

Featuring a highly reliable variable capacitance sensor using a patented silicon glass topology. This ultra-thin single crystal diaphragm is specifically designed to detect to only one micron of diaphragm deflection.

SENSOR CROSS SECTION



The silicone diaphragm sensor has no glues or other organics to contribute to drift or mechanical degradation over time.

**NOW WITH A
3 YEAR LIMITED
WARRANTY**



ISO 9001
REGISTERED FIRM

DRESSER
Measurement
BULLETIN CT-3

Industrial Model IXLdp Low Pressure Differential Transducer/Transmitter



PERFORMANCE CHARACTERISTICS

Accuracy (F.S.):	$\pm 0.25\%$	$\pm 0.5\%$
Non-Linearity		
Terminal Point*	± 0.2	± 0.4
Best Straight Line	± 0.15	± 0.3
Hysteresis	± 0.02	± 0.02
Non-repeatability	± 0.03	± 0.05
Interchangeability	± 0.25	± 0.50

*Includes hysteresis

Stability: $\pm 0.5\%$ F.S./year

Standard Ranges (Inches W.C.)

Unidirectional Ranges:

Differential or Gage

0/0.1	0/2.0	0/10	0/50
0/0.25	0/2.5	0/15	0/100
0/0.50	0/3.0	0/20	0/150
0/1.0	0/5.0	0/25	0/200

Bidirectional Ranges:

Compound or Vacuum

± 0.05	± 2.0	± 20.0
± 0.1	± 2.5	± 25.0
± 0.2	± 3.0	± 50.0
± 0.25	± 5.0	± 100.0
± 0.50	± 10.0	
± 1.0	± 15.0	

Scaling in other engineering units (eg. kPa, cmH₂O) and special range calibration available – consult factory

Response Time: 250m sec standard

(Consult factory for response time options)

ENVIRONMENTAL CHARACTERISTICS

Temperature Limits:

Storage: -40 to 210°F

Operating: -20 to 185°F

Compensated: 0 to 160°F

Thermal Coefficients:

	<u>0.5% Acc.</u>	<u>0.25% Acc.</u>
Zero	$\pm 0.02\%$ F.S./°F	$\pm 0.01\%$ F.S./°F
Span	$\pm 0.02\%$ F.S./°F	$\pm 0.01\%$ F.S./°F

FUNCTIONAL CHARACTERISTICS

Overpressure Limits:

Proof pressure: 15 psid

Burst differential pressure: 50 psid

Maximum static (line) pressure: 100 psid

Static pressure effect: less than 0.5% F.S.

Mounting Position Effect:

1" W.C. and higher $\leq 0.1\%$ F.S./g

0.25" up to 0.5" W.C. $\leq 0.5\%$ F.S./g

0.1" W.C. $\leq 0.8\%$ F.S./g

Warm-up Time:

Full specification: 1 second

Resolution: Infinite

Vibration Sweep: Less than 0.2% F.S./g temporary effect 10-130 Hz

ELECTRICAL SPECIFICATIONS

Output Signal Options:

Current: 4-20mA two wire current loop

Voltage: All voltage outputs are 3 wire

0-5 Vdc

1-5 Vdc

1-6 Vdc

± 2.5 Vdc

± 5 Vdc

Power Supply Range: 12-36 Vdc range

without effect on output signal

Reverse Polarity Protected

Internal Zero and Span: $\pm 10\%$ F.S.

adjustment

Supply Current: 2.6mA typical for voltage output

PHYSICAL CHARACTERISTICS

Process Connections: 1/4 NPT female

Electrical Connections: 1/2 NPT female electrical conduit connections isolated from the electronics. Separate access cover for terminal connections.

Enclosure: NEMA 4X, 300 series stainless steel.

Media: Clean, dry and non-corrosive gas (consult factory for use on other media)

NOT FOR USE ON LIQUIDS

OPTIONS

- 5:1 turndown
- Variable dampening
- Tagging
- Consult factory on other pressure range, temperature compensation, packaging variations or response times available

Factory Mutual \diamond_{FM} approvals:

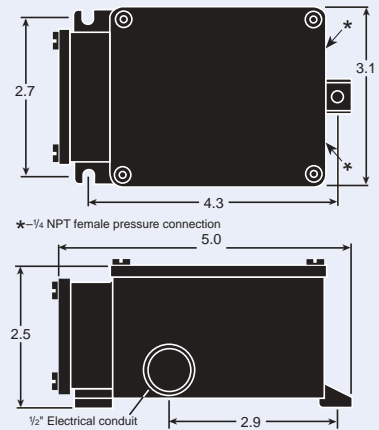
Intrinsically Safe:

Class I, Div. 1, Groups A, B, C, D

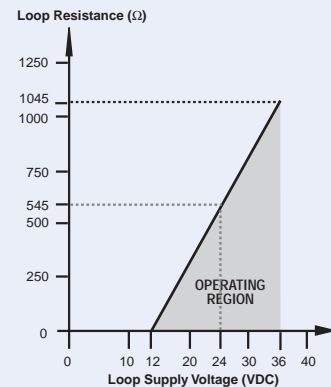
Class II, Div. 1, Groups E, F, G

Class III, Div. 1, when wired in accordance with Dresser drawings 71B241 (1-3)

DIMENSIONS (in inches)



Load Limitations 4-20mA Output Only



$$V_{min} = 12V + (.022A \times R_L)$$

$$R_L = R_s + R_w$$

R_L = Loop Resistance (ohms)

R_s = Sense Resistance (ohms)

R_w = Wire Resistance (ohms)



Measurement

Two Research Drive
Shelton, CT 06484
Tel: 203-925-4000
FAX: 203-925-4010
www.ashcroft.com

How To Order

IX

Accuracy/TC

(3) 0.25%, $\pm 0.01\%$ F.S./°F
(5) 0.50%, $\pm 0.02\%$ F.S./°F

Type Configuration
(IXLdp)

FO2

Pressure Connection
(FO2) 1/4 NPT-Female

Output Signal

(05) 0-5 Vdc
(15) 1-5 Vdc
(16) 1-6 Vdc
(42) 4-20mA
(25) ± 5.0 Vdc
(50) ± 2.5 Vdc

ST

Output Connection
(ST) Screw Terminal

Pressure Range

Diff. or Gauge:
(P1IW) 0.10" W.C.
(P25IW) 0.25" W.C.
(P5IW) 0.50" W.C.
(1IW) 1.00" W.C.
(2IW) 2.00" W.C.
(2P5IW) 2.50" W.C.
(3IW) 3.00" W.C.
(5IW) 5.00" W.C.
(10IW) 10.00" W.C.
(15IW) 15.00" W.C.
(20IW) 20.00" W.C.
(25IW) 25.00" W.C.
(50IW) 50.00" W.C.
(100IW) 100.00" W.C.
(150IW) 150.00" W.C.
(200IW) 200.00" W.C.

Compound:

(P05IWL) ± 0.05 "W.C.
(P1IWL) ± 0.10 "W.C.
(P2IWL) ± 0.20 "W.C.
(P25IWL) ± 0.25 "W.C.
(P5IWL) ± 0.50 "W.C.
(1IWL) ± 1.00 "W.C.
(2IWL) ± 2.00 "W.C.
(2P5IWL) ± 2.50 "W.C.
(3IWL) ± 3.00 "W.C.
(5IWL) ± 5.00 "W.C.
(10IWL) ± 10.00 "W.C.
(15IWL) ± 15.00 "W.C.
(20IWL) ± 20.00 "W.C.
(25IWL) ± 25.00 "W.C.
(50IWL) ± 50.00 "W.C.
(100IWL) ± 100.00 "W.C.

X

Optional X-Variations