

CXLdp Differential Pressure Transducer

Features

- TruAccuracy™ Terminal Point Accuracy method includes non-linearity, hysteresis, non-repeatability, zero offset and span setting errors.
- Rugged ABS package capable of DIN rail or panel mounting
- LED power status indicator
- Detachable Euro style terminal block
- Pressure ranges available down to ± 0.05 in. H₂O differential
- Unidirectional and Bidirectional ranges

Typical Uses

- Fume Hood Control
- Building/Comfort Control System
- Building Energy Management Systems
- HVAC/R
- Critical Environments
- Fan Monitoring
- Duct Flow
- Clean Room
- Filter Monitoring

Performance Specifications

Reference Temperature:	70 °F ± 2 °F (21 °C ± 1 °C)
Accuracy:	$\pm 0.25\%$, $\pm 0.4\%$, $\pm 0.8\%$ of span (Terminal Point Method : includes non-linearity, hysteresis, non-repeatability, zero offset and span setting errors)
Stability:	$\leq \pm 0.25\%$ of span/year at reference conditions
Media Compatibility:	Clean, dry and non-corrosive gas NOT FOR USE WITH LIQUIDS
Standard Response Time:	≤ 250 ms

Environmental Specifications

Temperature Limits:	Storage:	-40 °F to 180 °F (-40 °C to 82 °C)
	Operating:	0 °F to 160 °F (-17 °C to 71 °C)
	Compensated:	35 °F to 130 °F (1.6 °C to 54 °C)
Thermal Coefficients:	Zero: $\pm 0.03\%$ of span/°F Span: $\pm 0.03\%$ of span/°F (From 70 °F reference temperature)	
Humidity Effects:	No performance effect at 10-95% R.H. noncondensing	
CE Marked:	Per DoC EMC Directive 2014/30/EU IEC/EN 61326-1: Edition 1.0 Industrial IEC/EN 61326-2-3: Edition 1.0 Annex BB Industrial RoHS: 2011/65/EU Note: Board level units (no housing and 'MB1' designation) are not CE Marked.	




CXLdp
Pressure Transducer



Key Benefits

- Broad temperature capability
- High performance ASIC based electronics
- Superior long-term stability and repeatability
- 3 year warranty

Functional Specifications

Max. Static (Line) Pressure:	Proof:	Burst:
25 psi	15 psid	25 psid

Mounting Position	$\pm 1\%$ of span/g
Effect:	(Calibration in vertical position is STD.)

Electrical Specifications

Circuit Protection:	Reverse polarity and miswire protected	
Potentiometers:	Zero & Span: $\pm 5\%$ of span (externally accessible)	
Output Signal:	Supply Voltage:	Supply Current:
4-20 mA (2 wire)	12-36 Vdc	21.5 mA
0-5 Vdc (3 wire)	11.5-36 Vdc or 24 Vac ($\pm 20\%$)	6.5 mA
0-10 Vdc (3 wire)	14-36 Vdc or 24 Vac ($\pm 20\%$)	8 mA

Contact Us

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Physical Specifications

Pressure	¼ brass barbed fittings (male)
Connections:	⅜ NPT Female brass
Electrical Connection:	Euro style pluggable terminal block accepts 12-26 gauge wire
Visual Indicator:	LED
Weight:	Approx. 2.5 oz
Mounting:	Threaded fastener and 35 mm DIN rail mount
Enclosure Rating:	NEMA 1, Fire-retardant ABS (meets UL94-5VA)

Wetted Material

Media

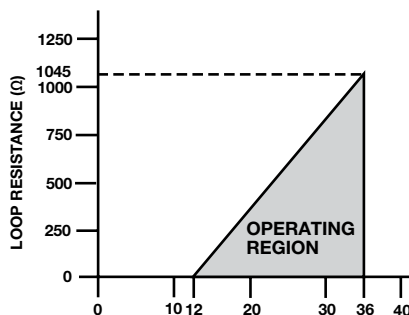
Clean, dry air/gases compatible with Aluminum, Titanium, PBT, Buna, Glass, Gold, Silicone Rubber, Silicon, Silicone RTV and Brass
 NOT FOR USE WITH LIQUIDS

Non-Wetted

Housing

Fire-retardant ABS (Meets UL 94-5VA)

Load Limitations 4-20 mA Output Only



$V_{min} = 12V + [0.022A \cdot (R_L)]$

*includes a 10% safety factor

$R_L = R_S + R_W$

R_L = Loop Resistance (ohms)

R_S = Sense Resistance (ohms)

R_W = Wire Resistance (ohms)

TruAccuracy

What Does It Mean?

Ashcroft's TruAccuracy™ specification is exclusively based on terminal point methodology instead of statistically derived schemes like 'best fit straight line'.

TruAccuracy™ means the Ashcroft CXLdp has $\pm 0.25\%$ of span accuracy out of the box. Zero and span setting errors are already included in the $\pm 0.25\%$ of span accuracy spec.

The CXLdp is ready to be installed with no additional calibration adjustments required.

A unit from another manufacturer advertised as $\pm 0.25\%$ best fit straight line may actually be a $\pm 1.25\%$ to $\pm 2.25\%$ device. Using best fit straight line method, the accuracy spec does not include zero and span setting errors, which can be as much as $\pm 1.00\%$ each.

Ashcroft® Si-Glas™ Sensor Technology

Featuring a highly reliable variable capacitance sensor using the patented Ashcroft® Si-Glas™ sensor. This ultra-thin single crystal diaphragm provides inherent sensor repeatability and stability.

Sensor Cross Section

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



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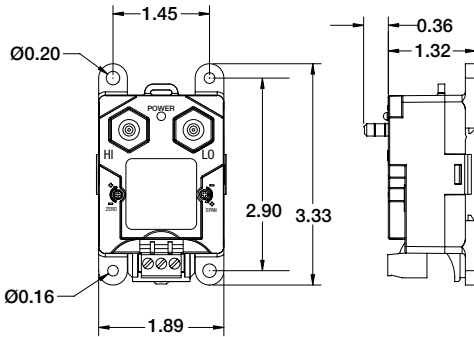
Ordering Code	Example:	CX4	MB2	42	P25IW	-XRH
Model						
CX3 - CXLdp Series, $\pm 0.25\%$ of span						
CX4 - CXLdp Series, $\pm 0.40\%$ of span		CX4				
CX8 - CXLdp Series, $\pm 0.80\%$ of span						
Pressure Connection						
F01 - 1/8 NPT Female						
MB1 - Board level only, no housing (consult factory)						
MB2 - 1/4 Barbed Male			MB2			
Output Signal						
10 - 0-10 Vdc (includes user selectable 0-5 Vdc output)						
42 - 4-20 mA				42		
Pressure Range						
Unidirectional Ranges (differential)						
P1IW - 0.1 in. H ₂ O						
P2IW - 0.20 in. H ₂ O						
P25IW - 0.25 in. H ₂ O					P25IW	
P4IW - 0.40 in. H ₂ O						
P5IW - 0.50 in. H ₂ O						
P6IW - 0.60 in. H ₂ O						
P75IW - 0.75 in. H ₂ O						
1IW - 1.00 in. H ₂ O						
2IW - 2.00 in. H ₂ O						
2P5IW - 2.50 in. H ₂ O						
3IW - 3.00 in. H ₂ O						
5IW - 5.00 in. H ₂ O						
10IW - 10.00 in. H ₂ O						
15IW - 15.00 in. H ₂ O						
20IW - 20.00 in. H ₂ O						
25IW - 25.00 in. H ₂ O						
50IW - 50.00 in. H ₂ O						
100IW - 100.00 in. H ₂ O						
Bi-directional Ranges (compound)						
P05IWL - ± 0.05 in. H ₂ O						
P1IWL - ± 0.10 in. H ₂ O						
P25IWL - ± 0.25 in. H ₂ O						
P5IWL - ± 0.50 in. H ₂ O						
1IWL - ± 1.00 in. H ₂ O						
2IWL - ± 2.00 in. H ₂ O						
2P5IWL - ± 2.50 in. H ₂ O						
3IWL - ± 3.00 in. H ₂ O						
5IWL - ± 5.00 in. H ₂ O						
8IWL - ± 8.00 in. H ₂ O						
10IWL - ± 10.00 in. H ₂ O						
15IWL - ± 15.00 in. H ₂ O						
25IWL - ± 25.00 in. H ₂ O						
50IWL - ± 50.00 in. H ₂ O						
Option (if including an option(s) must include an "X")						-X__
AH - Plenum/conduit kit packaged with CXLdp						
NH - Stainless steel tag						
NN - Paper tag						
RH - 9 point Traceable calibration certificate (OPT. for CX4 and CX8 only, standard for CX3)						RH
3P - 3 Point calibration data (for CX4 and CX8 only)						
3T - 3 Point Traceable calibration certificate (for CX4 and CX8 only)						

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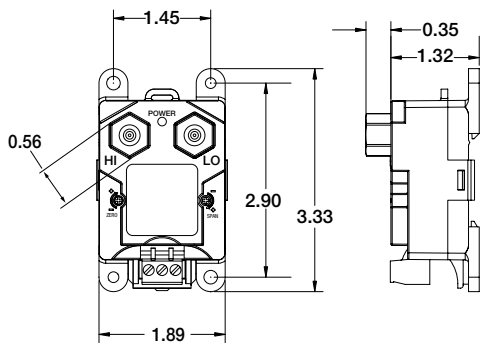
Dimensions

For reference only, consult Ashcroft for specific dimensional drawings.
 All dimensions are identified in inches.

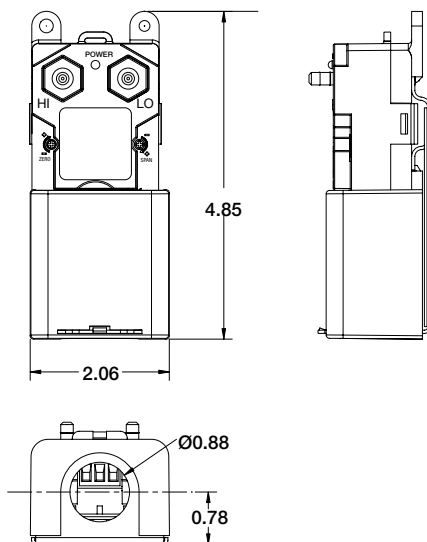
“MB2” ¼ Barbed Fittings



“F01” ½ NPT Female Fittings



Assembled with 101A213-01 ½" Plenum/Conduit Kit



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