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TECHNOLOGY GROUP

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- ITAR-certified secure asset solutions

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Find the *Ashcroft XLdp* at our website: *Click HERE*

ASHCROFT®
Trust the shield.™

Model XLdp Ultra-Low Differential Pressure Transmitter



3 WARRANTY YEAR

CE

LOOK FOR THIS AGENCY MARK ON OUR PRODUCTS

APPLICATIONS

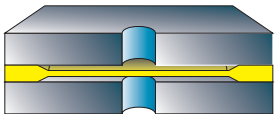
HVAC, fume hood control, lab/clean/hospital room pressurization, medical lung function or breathing equipment, fan tracking, filter monitoring, or very low velocity measurements

FEATURES:

- *Certified 0.25% and 0.5% accuracy*
- *0.1˝-50˝ H_2O pressure ranges*
- *CE approved*
- *High overpressure protection*
- *NEMA 2 stainless steel construction*
- *Three output signals available*
- *Easy installation*
- *On-board voltage regulation allows use of lower cost, non-precise, unregulated power supply*
- *9 point NIST Traceable Calibration Certificate*

Featuring a highly reliable variable capacitance sensor using the patented Ashcroft® SiGlas™ 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.

The patented Si-Glas™ technology combines the high sensitivity of a variable capacitance transducer with the repeatability of a micro-machined, ultra-thin silicon diaphragm. The XLdp enables precise measurement and control of very low pressure.

The Si-Glas sensor is composed of only sputtered metals and glass molecularly bonded to silicon. There are no epoxies or other organics in the sensor to contribute to drift or mechanical degradation over time. The glass-clad silicon diaphragm withstands extreme overpressure as well as severe shock and vibration.

PERFORMANCE SPECIFICATIONS

Ref. Temperature: 70°F ±2°F (21°C ±1°C)

Accuracy Class (of Span)
Two Options: ±0.25%, ±0.50%
Includes non-linearity (Terminal Point Method), hysteresis, non-repeatability, zero offset and span setting errors.

Stability – Max. Change (Span/year): ±0.25 %

Standard Ranges (Inches W.C.)

Unidirectional Ranges:
Differential or Gauge

0/0.10	0/1.00	0/ 3.00	0/25.00
0/0.25	0/1.50	0/ 5.00	0/50.00
0/0.50	0/2.00	0/10.00	
0/0.75	0/2.50	0/15.00	

Bidirectional Ranges:
Compound

±0.05	±1.00	± 5.00
±0.10	±2.00	±10.00
±0.25	±2.50	±25.00
±0.50	±3.00	±50.00

Custom Ranges: Special range calibrations (XCL) – consult factory

Standard Response Time: 250msec (Consult factory for damping options)

ENVIRONMENTAL SPECIFICATIONS

Temperature Limits:

Storage:	–40 to 180°F
Operating:	–20 to 160°F

(10-95% R.H. non-condensing)
Compensated Range: +35 to 135°F

Thermal Coefficients:

ZERO	±0.015% Span/°F
SPAN	±0.015% Span/°F

Vibration Sweep: Less than 0.05% Span temporary effect with 5 g's 0-60 Hz

CE Marked*: Per DoC
EMC Directive **2004/108/EC**
IEC/EN 61326-1:Edition 1.0 Industrial
IEC/EN 61326-2-3:Edition 1.0 Annex BB Industrial

FUNCTIONAL SPECIFICATIONS

Overpressure Limits:

Proof	15 psid
Burst	25 psid
Max. static line pressure	25 psi

Mounting Position Effect:

0.5˝ W.C. and higher	± 0.10% Span/g
0.25˝ W.C.	± 0.25% Span/g
0.1˝ W.C.	± 0.50% Span/g

Note: Calibrated horizontally standard unless otherwise specified. Mounting Position Effect easily corrected with zero potentiometer.

ELECTRICAL SPECIFICATIONS

Output Signal:	**Power:**
4-20mA (2 wire)*	12-36 Vdc
1-5 Vdc (3 wire)	12-36 Vdc
1-6 Vdc (3 wire)	12-36 Vdc

*Optional CE version

Output Signal is Independent of Power Supply Changes:
12-36 Vdc range without effect on output signal

Reverse Wiring Protected Zero and Span Potentiometers: Externally accessible, non-interactive, ±10% F.S. adjustment

Supply Current: <6mA for voltage output

Warm-up Time: 5 seconds max. to meet stated specifications

*Applies to 4-20mA output units with XCE option

All specifications are subject to change without notice.
All sales subject to standard terms and conditions.
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Model XLdp Ultra-Low Pressure Differential Transmitter

PHYSICAL SPECIFICATIONS

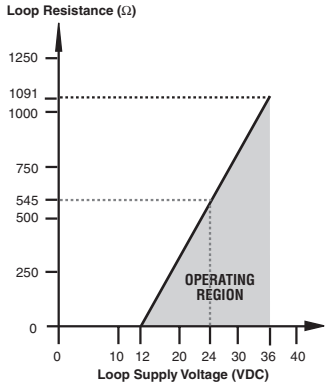
Pressure Connections:
¼″ barbed stainless steel
⅛″ barbed stainless steel (optional)
¼ NPT female stainless steel (optional)
Electrical Connections: Teminal strip
Weight: 14 oz, NEMA 2 Case
MATERIALS:
Case: 300 series stainless steel
Media: Clean, dry, non-corrosive gas (consult factory for use on other media)
DO NOT USE ON LIQUIDS
NOTES:
- Calibration curve (0.25%) or data (0.50%)supplied with each transmitter
- Consult factory on other pressure range, temperature compensation or packaging variations

OPTIONS

- (XCL) Custom calibration
- (XCE) CE compliant 4-20mA only
- (XV9) Calibrated vertically
- (XX1) – Fast response time 5 msec.
- (XX2) – Slow response time 1 sec.

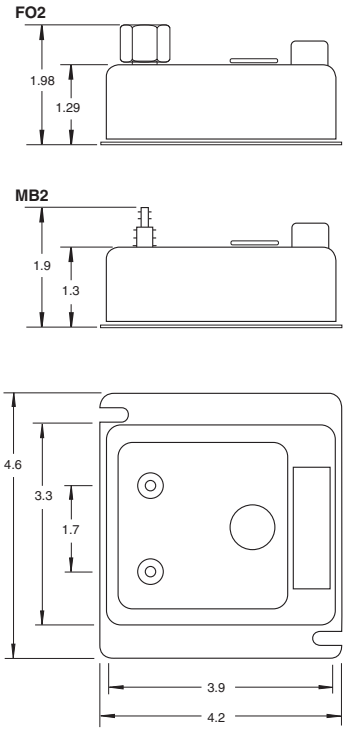
NOTES:
- Consult factory for additional options including pressure ranges, temperature compensation, packaging variations and signal response time.

Load Limitations 4-20mA Output Only



V_{min} = 12V+ (.022A x R_L)
R_L = R_s +R_w
R_L = Loop Resistance (ohms)
R_s = Sense Resistance (ohms)
R_w = Wire Resistance (ohms)

DIMENSIONS (in inches)



How To Order

XL				ST		-	X	
Type Configuration (XLdp)	Accuracy/TC* (3) 0.25%, ±0.015%F.S./°F (5) 0.50%, ±0.015%F.S./°F	Pressure Connection (MB2) ¼ Barbed Stainless Steel (MB8) ⅛ Barbed Stainless Steel (FO2) ¼ NPTF	Output Signal (15) 1-5 Vdc (16) 1-6 Vdc (42) 4-20mA	Electrical Termination (ST) Screw Terminal	Pressure Range		Optional X-Variations (XCE) CE Approval option available with 4-20mA output (XCL) Custom calibration (XV9) Calibrated vertically (XX1) Fast response time (XX2) Slow response time	

*XLdp units include 9 point NIST traceable calibration certificate

Pressure Range

Diff. or Gauge:	Compound:
(P1 IW) 0.10˝W.C.	(P05 IWL) ±0.05˝W.C.
(P25 IW) 0.25˝W.C.	(P1 IWL) ±0.10˝W.C.
(P5 IW) 0.50˝W.C.	(P25 IWL) ±0.25˝W.C.
(P75 IW) 0.75˝W.C.	(P5 IWL) ±0.50˝W.C.
(1 IW) 1.00˝W.C.	(1 IWL) ±1.00˝W.C.
(1P5 IW) 1.50˝W.C.	(2P IWL) ±2.00˝W.C.
(2I W) 2.00˝W.C.	(2P5 IWL) ±2.50˝W.C.
(2P5 IW) 2.50˝W.C.	(3 IWL) ±3.00˝W.C.
(3I W) 3.00˝W.C.	(5 IWL) ±5.00˝W.C.
(5 IW) 5.00˝W.C.	(10 IWL) ±10.00˝W.C.
(10 IW) 10.00˝W.C.	(25 IWL) ±25.00˝W.C.
(15 IW) 15.00˝W.C.	(50 IWL) ±50.00˝W.C.
(25 IW) 25.00˝W.C.	
(50 IW) 50.00˝W.C.	

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