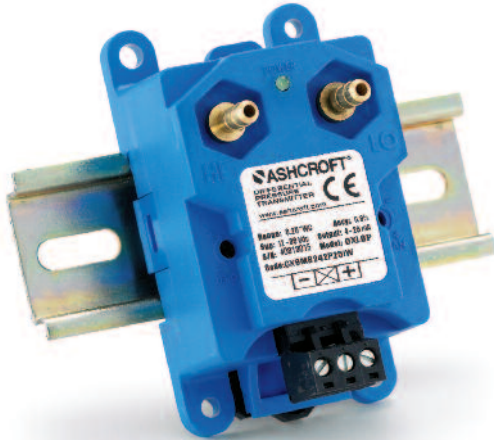


## Model CXLdp Differential Pressure Transmitter



### APPLICATION

*Low-pressure measurement for building energy management and comfort control*

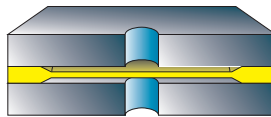
### FEATURES

- *Rugged ABS package capable of DIN rail or standard panel mounting*
- *LED power status indicator to assist in trouble shooting or quickly locating the instrument on a duct*
- *Detachable Euro style terminal block reduces wiring errors and field wiring time*
- *19 standard pressure ranges all capable of withstanding 15 psi without damage or calibration change*
- *Digitally compensated, 0.4% Span and 0.8% Span accuracy models*
- *NIST traceable*
- *Board level, no housing, options*

The Ashcroft® CXLdp transmitter uses the patented Ashcroft Si-Glas™ variable capacitance sensor. This MEMS sensor provides extraordinary sensitivity and long term stability. New digital compensation is accomplished using a highly reliable application specific integrated circuit (ASIC).

*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.*

### PERFORMANCE SPECIFICATIONS

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

**Accuracy Class (Span):** ±0.8% or ±0.4%

Includes non-linearity, hysteresis, non-repeatability, zero offset and span setting errors.

**Stability – Max. Change**

(Span/year): ≤0.25% ≤0.25%

**Standard Ranges (Inches W.C.)**

**Unidirectional Ranges:**

**Differential**

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

**Bidirectional Ranges:**

**Compound**

±0.10	±0.50	±2.00	±10.00
±0.25	±1.00	±5.00	±15.00

**Response Time:** 250 msec

### ENVIRONMENTAL SPECIFICATIONS

**Temperature Limits:**

Storage –40 to 180°F

Operating +0 to 160°F

Compensated Range +35 to 130°F  
(10-95% R.H. non-condensing)

**Temperature Coefficients:**

Zero & Span ±0.03% Span/°F

**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 Pressure 15 psid

Burst Pressure 25 psid

Max. static line pressure 25 psi

**Mounting Position Effect:** ±1%/g (lowest range)

**Note:** Calibration in vertical position is standard

### ELECTRICAL SPECIFICATIONS

**Voltage Output:** **Supply Voltage:** **Supply Current:**

4-20mA (2 wire) 12-36 Vdc 21.5mA

0-5 Vdc (3 wire) 11.5-36 Vdc 4.5mA

0-10 Vdc (3 wire) 14-36 Vdc or 24 Vac 6mA

**Output signal is independent of power supply changes**

**Reverse Wiring Protected**

**Zero and Span Adjustment:**

Externally accessible

Zero: ±5% F.S.

Span: ±5% F.S.

### PHYSICAL SPECIFICATIONS

**Pressure Connections:**

¼" brass barbed fittings

½ NPT Female brass

**Electrical Connection:** Euro style pluggable terminal block accepts 12-26 gauge wire

**Enclosure:** NEMA Type 1 Fire-retardant ABS (meets UL 94-5VA)

**LED visual indicator standard**

**Weight:** Approx. 2.5 oz

**Media:** Clean, dry and non-corrosive gas

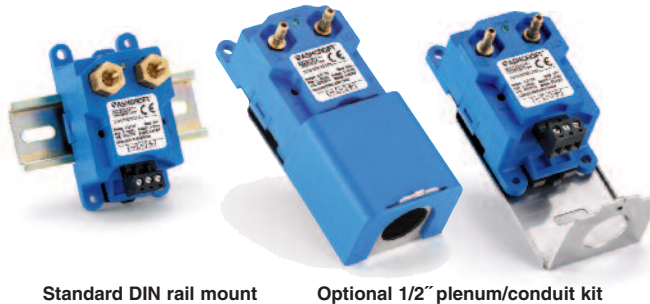
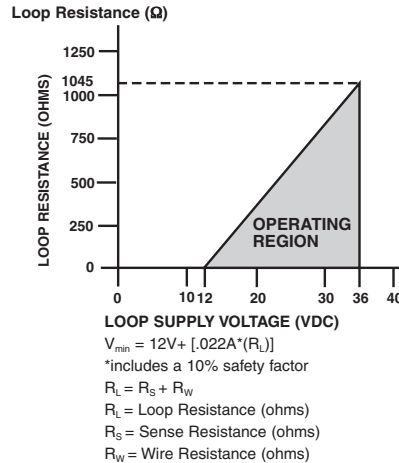
**Mounting:** Threaded fastener and 35mm DIN rail mount standard.

**Option:** ½" plenum/conduit mounting bracket and cover kit (order part #101A213-01)

**XRH:** (9 point NIST Calibration Certification)

## Model CXLdp Low Pressure Differential Transmitter

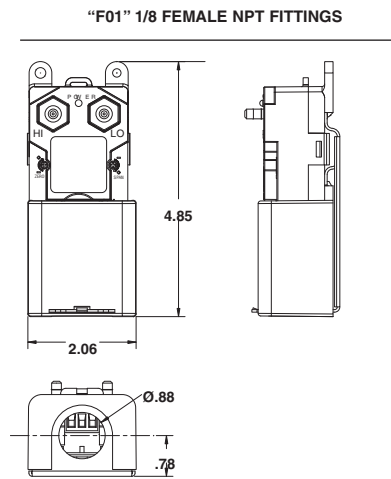
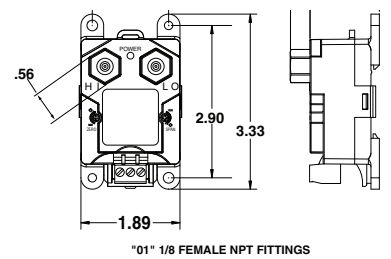
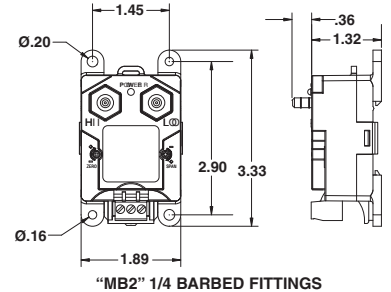
### Load Limitations 4-20mA Output



Standard DIN rail mount

Optional 1/2" plenum/conduit kit

### DIMENSIONS (in inches)



### How To Order

**C X**

**Type**  
(CX) CXLdp

**Accuracy/TC**  
(8) 0.8%, ±0.03%/°F  
(4) 0.4%, ±0.03%/°F

**Connection**  
(MB1) No Housing<sup>(1)</sup>  
(MB2) 1/4 Barbed Male  
(F01) 1/2 NPT Female

**Output Signal**  
(42) 4-20mA  
(10) 0-10Vdc<sup>(1)</sup>

**Pressure Range**

Diff. or Gauge:	Compound:
(P1IW) 0.10"W.C.	(P1IWL) ±0.10"W.C.
(P25IW) 0.25"W.C.	(P25IWL) ±0.25"W.C.
(P5IW) 0.50"W.C.	(P5IWL) ±0.50"W.C.
(P75IW) 0.75"W.C.	(11IW) ±1.00"W.C.
(1IW) 1.00"W.C.	(2IWL) ±2.00"W.C.
(2IW) 2.00"W.C.	(5IWL) ±5.00"W.C.
(2P5IW) 2.50"W.C.	(10IWL) ±10.00"W.C.
(3IW) 3.00"W.C.	(15IWL) ±15.00"W.C.
(5IW) 5.00"W.C.	
(10IW) 10.00"W.C.	
(15IW) 15.00"W.C.	
(25IW) 25.00"W.C.	

**XAH<sup>(2)</sup>**

Conduit Kit Packaged with the CXLdp  
**XRH**  
Traceable 9 Point Calibration Report

- Notes:**  
 (1) Includes user selectable option 0-5Vdc output.  
 (2) Note: XAH option is for the conduit kit assembled with the CXLdp. To get the conduit kit separately request Part No. 101A213-01.  
 (3) Consult factory for board level, no housing, options.