



**ASHCROFT**

### DESCRIPTION

The Ashcroft DXLdp Series Differential Pressure Transmitters are designed for critical, high accuracy, low pressure applications. The DXLdp Series is available in accuracies of  $\pm 0.25\%$ ,  $\pm 0.50\%$  and  $\pm 1.00\%$  of Full Span which include non-linearity (Terminal Point Method) hysteresis, non-repeatability, zero offset, and span setting errors. It is available with voltage or milliamp outputs. The models are available in unidirectional and bidirectional ranges from 0.10" W.C. to 50" W.C. and  $\pm 0.05$ " W.C. to  $\pm 25$ " W.C. respectively.

### FEATURES

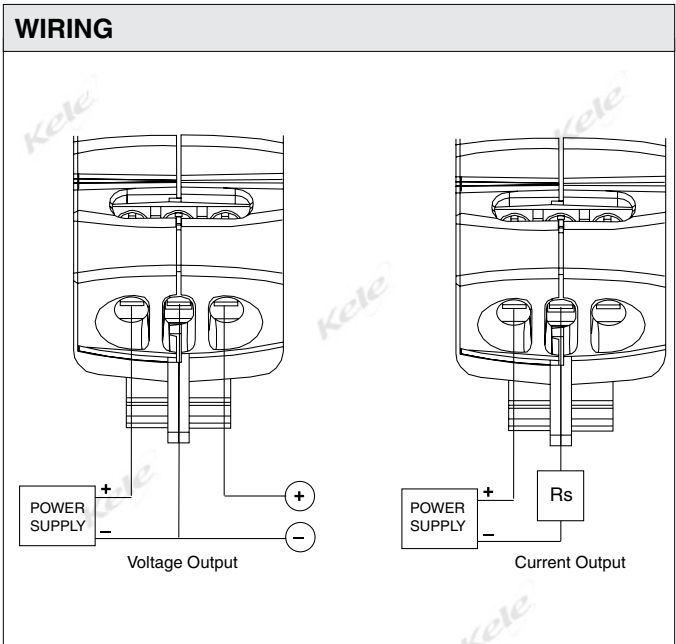
- **Reliable and repeatable, stable capacitive sensor**
- **Ultra-low pressure ranges 0 to 0.10" W.C. or  $\pm 0.05$ " W.C.**
- **DIN rail mount reduces installation and calibration costs**
- **Easy access zero and span adjustments (optional)**
- **0.25% and 0.50% include NIST certificate, option on 1.00% accuracy**
- **CE Standard with all outputs**
- **250ms response time**
- **LED range status indicators**



DXLdp Series



SPECIFICATIONS	
Supply Voltage	12-36 VDC
Supply Current	< 10 mA for voltage
Accuracy	$\pm 0.25\%$ , $\pm 0.5\%$ , $\pm 1.0\%$
Stability	$\pm 0.25\%$ FS/yr
Signal Output	4-20 mA, 1-5 VDC, 1-6 VDC, 0-5 VDC, 0-10 VDC
Maximum Output Impedance	545 $\Omega$ @ 24 VDC
Maximum Pressure	25 psi (172.4 kPa)
Burst Pressure	25 psid (172 kPa)
Proof Pressure	15 psid (103 kPa)
Response Time	250 ms
Operating Temperature	-20° to 160°F (-28.9° to 71.1°C)
Operating Humidity	10 to 95% RH (non-condensing)
Process Connection	1/8" NPT
Media Compatibility	Clean, dry and non-corrosive gas
Enclosure Rating	NEMA 1
Dimensions	3.9"W x 5.0"H x 0.9"D (9.9 x 12.7 x 2.3 cm)
Weight	0.28 lb (0.13 Kg)
Approvals	CE
Warranty	3 years





# PRESSURE

## DIFFERENTIAL PRESSURE TRANSMITTER DXLDP SERIES

### ORDERING INFORMATION

MODEL	DESCRIPTION
<b>DX</b>	DXLdp ultra-low differential pressure transmitter
<b>3*</b>	0.25% accuracy, $\pm 0.02\%/F^\circ$
<b>5*</b>	0.50% accuracy, $\pm 0.02\%/F^\circ$
<b>7</b>	1.00% accuracy, $\pm 0.02\%/F^\circ$
<b>F01</b>	1/8" FNPT
<b>05</b>	0-5 VDC signal output
<b>10</b>	0-10 VDC signal output
<b>15</b>	0-5 VDC signal output
<b>16</b>	1-6 VDC signal output
<b>42</b>	4-20 mA signal output
<b>ST</b>	Screw terminal electrical termination
<b>PRESSURE RANGE "W.C.</b>	
<b>P1IW</b>	0-0.10
<b>P25IW</b>	0-0.25
<b>P5IW</b>	0-0.50
<b>P75IW</b>	0-0.75
<b>1IW</b>	0-1.00
<b>1P5IW</b>	0-1.50
<b>2IW</b>	0-2.00
<b>2P5IW</b>	0-2.50
<b>3IW</b>	0-3.00
<b>5IW</b>	0-5.00
<b>10IW</b>	0-10.0
<b>P05IWL</b>	$\pm 0.05$
<b>P1IWL</b>	$\pm 0.10$
<b>P25IWL</b>	$\pm 0.25$
<b>P5IWL</b>	$\pm 0.50$
<b>P75IWL</b>	$\pm 0.75$
<b>1IWL</b>	$\pm 1.00$
<b>2IWL</b>	$\pm 2.00$
<b>2P5IWL</b>	$\pm 2.50$
<b>3IWL</b>	$\pm 3.00$
<b>5IWL</b>	$\pm 5.00$
<b>10IWL</b>	$\pm 10.00$
<b>OPTIONAL X-VARIATION</b>	
<b>XDL</b>	Optional LED
<b>XPV</b>	Optional process valve actuator
<b>XNL</b>	Optional text jacks

\*units include 9 point NIST traceable calibration certificate

**DX** **7** **F01** **05** **ST** **P1IWL** **Example:** **DX-7-F01-05-ST-P1IWL** Ultra-low differential pressure transmitter with 1.00% accuracy, 1/8" FNPT process connection, 0-5 VDC signal output, screw terminal electrical termination, 0.10" W.C. pressure range, no options

### RELATED PRODUCTS

- |                  |  |
|------------------|--|
| <b>T-101</b>     | 1/4" OD black poly tubing, 1 coil, 250 ft (76 m)             |
| <b>SD-01</b>     | Surge dampener   |
| <b>RPS</b>       | Stainless steel room pressure sensor, 1/4" barb              |
| <b>RPS-I</b>     | Ivory plastic room pressure sensor, 1/4" barb                |
| <b>RPS-W</b>     | White plastic room pressure sensor, 1/4" barb                |
| <b>A-302-K</b>   | Duct static pressure tip, 1/4" barb                          |
| <b>A-301-K</b>   | Duct static pressure tip, 1/4" compression                   |
| <b>A-345-K</b>   | Flange mounting kit (1 required for each A-301-K or A-302-K) |
| <b>A-308-K</b>   | Duct static pressure fitting, 1/4" barb                      |
| <b>DCPA-1.2</b>  | Power supply, 120 VAC IN to 24 VAC/24 VDC OUT                |
| <b>DCP-1.5-W</b> | Power supply, 24 VAC IN to 24 VDC OUT                        |