

Model DXLdp Ultra-Low Differential Pressure Transmitter





LOOK FOR THIS GENCY MARK ON OUR PRODUCTS

APPLICATIONS:

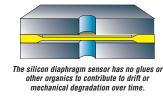
High reliability HVAC, bio-pharm, biotech, room pressurization and control, velocity pressure

FEATURES:

- The exclusive patented Ashcroft[®] SpoolCal[™] actuator provides in-place system calibration without disturbing process tubes
- Front access test jacks provide on-line signal reference without removing wiring
- LED range status indicators for instant troubleshooting information
- DIN Rail Mount dramatically reduces installation and calibration costs
- 2:1 range turndown options
- · CE standard with all outputs
- On-board voltage regulation allows use of lower cost, unregulated power supply

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 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 Ashcroft Si-Glas sensor enables precise measurement and control of verv 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)

Three Options: ±0.25%, ±0.5%, ±1.0%

Includes non-linearity (Terminal Point Method), hysteresis, non-repeatability, zero offset and span setting errors. Note: Caibration report included with 0.25% and 0.5% units.

Stability – Max. Change (Span/year): ±0.25% Standard Ranges (Inches W.C.) Unidirectional Ranges:

Differential or Gauge

Differentia	UI Gauge		
0/0.10	0/1.00	0/ 3.00	0/20.00
0/0.25	0/1.50	0/ 5.00	0/25.00
0/0.50	0/2.00	0/10.00	0/50.00
0/0.75	0/2.50	0/15.00	
Bidirection	nal Ranges	5:	
Compound			
±0.05	±0.50	±2.00	± 5.00
±0.10	±0.75	±2.50	±10.00
±0.25	±1.00	±3.00	±25.00
Custom Ra	anges: Spe	cial range c	alibration,
(XCL) - Co	onsult facto	ory	

Standard Response Time: 250m sec (Consult factory for optional damping times)

ENVIRONMENTAL SPECIFICATIONS

Temperature Limits: Storage: -40 to 180°F Operating: -20 to 160°F (10-95% R.H. noncondensing) Compensated Range: +35 to 135°F **Thermal Coefficients:** ±0.02% Span/°F **ZERO** ±0.02% Span/°F SPAN

FUNCTIONAL SPECIFICATIONS

Overpressure Limits: 15 neid Proof

Burst			psid	
Max. Static Line	Pressure:	25	psi	

Mounting Position Effect: 0.5" W.C. and higher 0.1% Span/g Below 0.5" W.C. 0.25% Span/g Note: Mounting Position Effect easily corrected with zero potentiometer.

ELECTRICAL SPECIFICATIONS

Output Signal:	Power:
4-20mA (2 wire)	12-36 Vdc
1-5 Vdc	12-36 Vdc
1-6 Vdc	12-36 Vdc
0-5 Vdc	12-36 Vdc
0-10 Vdc	12-36 Vdc
Output signal is in	ndonondont of

Output signal is independent of power supply changes: 12-36 Vdc range without effect on output signal

Reverse Wiring Protected

Zero and Span Potentiometers: Front accessible, non-interactive Zero: ±5%F.S. ±3%F.S. Span: Supply Current: < 10mA for voltage Warm-up Time: 5 sec. max. to meet stated specifications from initial power-up

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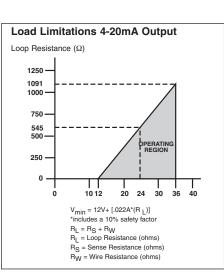
PHYSICAL SPECIFICATIONS

Pressure Connections: % NPT Female Weight: 4.5 oz., NEMA 1 Case MATERIALS:

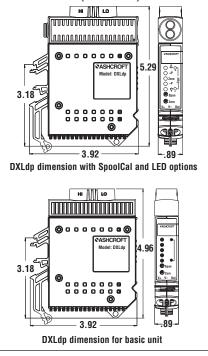
Enclosure: Glass-filled polycarbonate (UL94-V-1) Media: Clean, dry and non-corrosive gas (consult factory for use on other media). NOT FOR USE ON LIQUIDS

Mounting: DIN rail types EN50022, 35 & 45 OPTIONS

- Option XDL: LED for quick process diagnostics: Zero Pressure......Center Amber LED In Range ±Adjacent Green LED's Out of Range ±Adjacent Red LED's Includes: front access test jacks for on-line data access without disturbing wiring
- Option XNL: Front access jacks without LED's
 Option XPV: Available on pressure ranges up to
 50IW maximum, SpoolCal[™] process valve actuator
 provides in-place system calibration without disturb ing process tubes. From Off position the removable
 SpoolCal[™] actuator tool provides the following functions:
- A 90 degree clockwise rotation puts the DXLdp in the CAL mode isolating it from the process and allowing direct external pressure input
- A 90 degree counter clockwise rotation puts the DXLdp in the MONITOR mode to tee the process pressure to the DXLdp sensor and out, providing external measurement or recording capabilities. Includes SpoolCaI[™] actuator tool with 7["] silicon tubing (as shown in front photo). (Refer to Ashcroft[®] ATE series calibrator for data collection and instrumentation)
- **Option X21:** 2:1 turn down, 0.25% accuracy is maintained on initialized range
- **Option XCL:** Special range calibration
- Option XX1: Fast response (10msec)
- Option XX2: Slow response (1sec)



DIMENSIONS (in inches)



How To Order

(DXLdp) Co	F 0 1 Pressure connection Fo1) % NPT Female	Output Signal (05) 0-5 Vdc (10) 0-10 Vdc (15) 1-5 Vdc (16) 1-6 Vdc (42) 4-20mA	Electrical Termination (ST) Screw Terminal	Differential (P11W) 0.10 W.C. (P25IW) 0.25 W.C. (P51W) 0.50 W.C. (P75IW) 0.50 W.C. (11W) 1.00 W.C. (21W) 1.50 W.C. (21W) 2.00 W.C. (21W) 2.00 W.C. (31W) 3.00 W.C. (51W) 5.00 W.C.	Compound: (P5IWL) ±0.05 W.C. (P1IWL) ±0.05 W.C. (P1IWL) ±0.10 W.C. (P2IWL) ±0.25 W.C. (P5IWL) ±0.25 W.C. (P5IWL) ±0.75 W.C. (1IWL) ±0.07 W.C. (2IWL) ±2.00 W.C. (2IWL) ±2.00 W.C. (3IWL) ±3.00 W.C. (5IWL) ±5.00 W.C.	Coptional X-Variation (XDL) LED (XPV) Process Valve Actuator (X21) 2:1 Turndown (XNL) Test Jacks (XNL) Special Range Calibration (XX1) Fast Besponse (10msec)
*DXLdp units include 9 point NIST trace: * *Pascal ranges available, consult factory			0.50% units.	(31W) 10.00 W.C. (151W) 15.00 W.C. (201W) 20.00 W.C. (251W) 25.00 W.C. (501W) 50.00 W.C.	(10IWL) ±10.00 [°] W.C. (25IWL) ±25.00 [°] W.C.	Fast Response (10msec) (XX2) Slow Response (1sec)

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