









Exclusive XLdp Features

- 15 psi proof pressure for all pressure ranges
- Offering 0.25% accuracy down to 0.05" of water column
- A wide assortment of uni- and bi-directional ranges available
- Nonstandard ranges available
- All stainless steel NEMA 2 construction
- Factory adjustable damping from 5msec to 1sec.
- On-board voltage regulation allows use of lower cost, non-precise, unregulated power supply

VASHCROFT®

Model XLdp Transmitter

Featuring a highly reliable variable capacitance sensor using a patented SiGlas™ silicon and glass construction. This ultrathin single crystal diaphragm is specifically designed to detect less than one micron of diaphragm deflection.



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



ISO 9001
REGISTERED FIRM



Model XLdp Ultra-Low Pressure Differential Transducer/Transmitter



PERFORMANCE CHARACTERISTICS

Accuracy Class (F.S.):	±0.25%	±0.50%
Non-linearity		
Terminal Point*	±0.2%	±0.4%
Best Fit Straight Line	±0.15%	±0.3%
Hysteresis	±0.02%	±0.02%
Non-repeatability	±0.03%	±0.05%
*Includes hysteresis		

Stability - Max. Change (F.S./year): ±0.5% Standard Ranges (Inches W.C.)

Unidirectional Ranges:

Different	<u>tial or Gau</u>	<u>ige</u>		
0/0.1	0/1.0	0/3.0	0/25.0	
0/0.25	0/1.5	0/5.0	0/50.0	
0/0.5	0/2.0	0/10.0		
0/0.75	0/2.5	0/15.0		
Bidirectional Ranges:				

Compound

±0.05	±1.0	±5.0
±0.1	±2.0	±10.0
±0.25	±2.5	±25.0
±0.5	±3.0	

Custom Ranges: Special range calibrations (XCL) - consult factor

Standard Response Time: 250m sec (Factory set damping from 5msec. to 1 sec.) See options for Fast (XX1) and Slow (XX2) response time

ENVIRONMENTAL CHARACTERISTICS

Temperature Limits:

-40 to 180°F Storage: Operating: -20 to 160°F (10-95% R.H. non-condensing) Compensated Range: +35 to 135°F

Thermal Coefficients: ±0.015% F.S./°F Zero ±0.015% F.S./°F

Vibration Sweep: Less than 0.05% F.S. temporary effect with 5g's 0-60 Hz EMC: CE model compliant to EN61326: 1997 Annex A Harmonized heavy industrial transmitter - specification

FUNCTIONAL CHARACTERISTICS

Overpressure Limits:

Proof 15 psi 25 psi Burst Maximum static line pressure: 25 psi

Mounting Position Effect: ≤0.10% F.S./g 0.5" W.C. and higher

≤0.25% F.S./g 0.25" W.C. 0.1" W.C. ≤0.50% F.S./g Note: Calibrated horizontally standard unless otherwise specified. Order (XV9) for

vertical calibration.

ELECTRICAL SPECIFICATIONS

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

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

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 sec. max. to meet stated specifications

PHYSICAL CHARACTERISTICS

Pressure Connections:

1/4" barbed stainless steel

1/8" barbed stainless steel (optional) 1/4 NPT female stainless steel (optional) **Electrical Connections:** Terminal strip

Enclosure: NEMA 2 Weight: 14 oz MATERIALS:

Case: 300 stainless steel

Media: Clean, dry, non-corrosive gas (consult factory for use on other media).

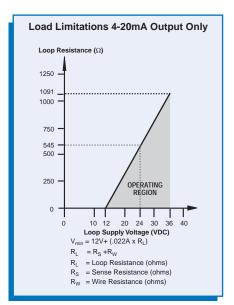
NOT FOR USE ON LIQUIDS

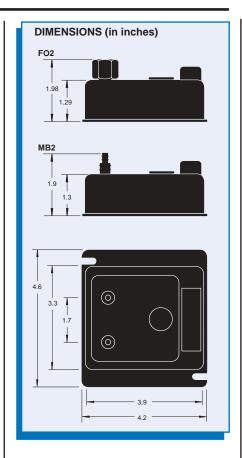
- (XCL) Custom calibration
- (XCE) CE compliant 4-20mA only
- (XV9) Calibrated vertically
- (XX1) Fast response time (5msec)
- (XX2) Slow response time (1sec)

NOTES-

OPTIONS

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









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