

Exclusive RXLdp Features

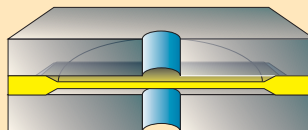
- 10 psi proof pressure on all pressure ranges down to 0.1" of water column
- Reliable and stable down to 0.1" of water column
- Stainless steel and Lexan* NEMA 1 construction
- A wide assortment of uni- and bi-directional ranges available
- Nonstandard ranges available
- OEM board level products entertained

*Lexan is a registered trademark of General Electric Company

Model RXLdp Transmitter

Featuring a highly reliable variable capacitance sensor using the patented Ashcroft® SiGlas™ sensor. This ultra-thin single crystal diaphragm is specifically designed to detect to only one micron of diaphragm deflection.

SENSOR CROSS SECTION



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



**NOW WITH A
3 YEAR LIMITED
WARRANTY**

ISO 9001
REGISTERED FIRM



DRESSER
Measurement

Model RXLdp Low Pressure Differential Transducer/Transmitter



PERFORMANCE CHARACTERISTICS

Accuracy Class (F.S.): 1.0%

Nonlinearity:

Terminal Point*	±0.8%
B.F.S.L.	±0.6%
Hysteresis	±0.05%
Nonrepeatability	±0.10%
Interchangeability	±1.0%

*Includes hysteresis

Stability – Max. (F.S./year):

±0.5% noncumulative

Standard Ranges (Inches W.C.)

Unidirectional Ranges:

Differential or Gage

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

±0.1	±0.75	±2.5	±10.0
±0.25	±1.0	±3.0	±25.0
±0.5	±2.0	±5.0	

Consult factory for non-standard ranges

Response Time: 250m sec

Consult factory for optional response time

ENVIRONMENTAL CHARACTERISTICS

Temperature Limits:

Storage: -40 to 180°F

Operating: 0 to 160°F

(10-95% R.H. non-condensing)

Compensated Range: +40 to 125°F

Thermal Coefficients:

Zero ±0.025%F.S./°F

Span ±0.025%F.S./°F

EMC: CE Compliant to EN61326: 1997

ANNEX A. Harmonized heavy industrial

transmitter-specification

FUNCTIONAL CHARACTERISTICS

Overpressure Limits:

Proof 10psid

Burst 25 psis

Maximum static (line) pressure: 25 psis

Mounting Position Error:

0.5" W.C. and higher ≤0.1% F.S.

Below 0.5" W.C. ≤0.25% F.S.

ELECTRICAL SPECIFICATIONS

Output Signal:

4-20mA (2 wire)*

1-5 Vdc

1-6 Vdc

0-5 Vdc

0-10 Vdc

*Optional CE versions available

Power:

12-36 Vdc

12-36 Vdc

12-36 Vdc

12-36 Vdc

12-36 Vdc

Zero and Span Potentiometers:

Externally accessible, non-interactive

Zero: ±5%F.S.

Span: ±3%F.S.

Reverse Polarity Protected: 12-36 Vdc

range without effect on output signal

Supply Current: <6mA for voltage output

Warm-up Time: 15 sec. max. to meet

standard specifications from initial power-up

PHYSICAL CHARACTERISTICS

Pressure Connections:

1/4" barbed stainless steel

1/8" barbed stainless steel

1/8" NPT Female stainless steel

Weight: 4.5 oz., NEMA 1 Case

MATERIALS:

Case/Cap: Stainless Steel/Lexan

Media: Clean, dry and non-corrosive gas

(consult factory for use on other media).

NOT FOR USE ON LIQUIDS

OPTIONS

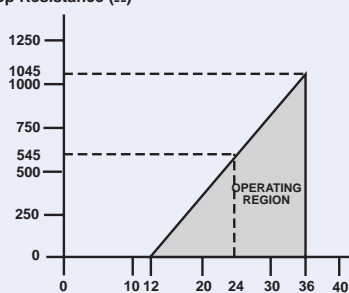
- Back plate adapter (XRK)
- Calibration report (XRH)
- Non-standard calibration (XCL)
- CE compliant (XCE)

NOTES:

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

Load Limitations 4-20mA Output

Loop Resistance (Ω)



LOOP SUPPLY VOLTAGE (VDC)

$V_{min} = 12V + [0.022A \cdot (R_L)]$

*includes a 10% safety factor

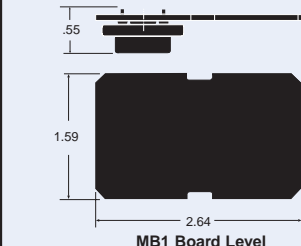
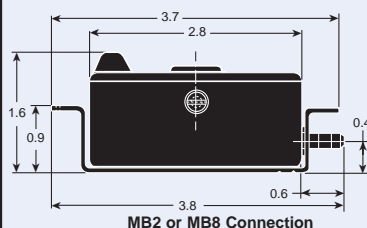
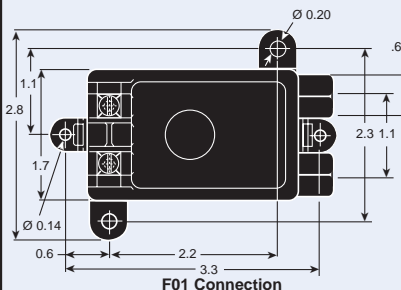
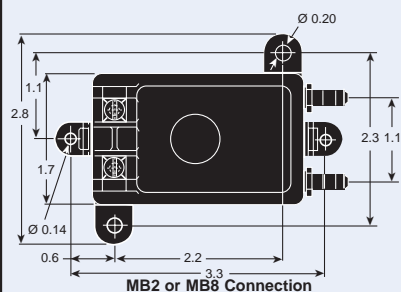
$R_L = R_S + R_W$

R_L = Loop Resistance (ohms)

R_S = Sense Resistance (ohms)

R_W = Wire Resistance (ohms)

DIMENSIONS (in inches)



Measurement

DRESSER INSTRUMENT, DRESSER, INC.

TWO RESEARCH DRIVE • SHELTON, CT 06484

(203) 925-4000 Customer Service • (203) 925-4010 Fax

www.ashcroft.com

How To Order

R X

7

S T

X

Type Configuration
(RXLdp)

Accuracy/TC
(7) 1.00%, ±0.025%/°F

Pressure Connection
(MB2) 1/4 Barbed Male
(MB8) 1/8 Barbed Male
(MB1) Board Level/No Case
(F01) 1/8 NPT Female

Output Signal
(05) 0-5 Vdc
(10) 0-10 Vdc
(15) 1-5 Vdc
(16) 1-6 Vdc
(42) 4-20mA

Output Connection
(ST) Electric Terminal

Pressure Range
(±0.5"W.C. Compound)

Diff. or Gauge:
(P11W) 0.10"W.C.
(P25IW) 0.25"W.C.
(P51W) 0.50"W.C.
(P75IW) 0.75"W.C.
(11W) 1.00"W.C.
(1P51W) 1.50"W.C.
(2IW) 2.00"W.C.
(2P51W) 2.50"W.C.
(3IW) 3.00"W.C.
(5IW) 5.00"W.C.
(10IW) 10.00"W.C.
(15IW) 15.00"W.C.
(20IW) 20.00"W.C.
(25IW) 25.00"W.C.
(50IW) 50.00"W.C.

Compound:
(P05IW) ±0.05"W.C.
(P1IW) ±0.10"W.C.
(P25IW) ±0.25"W.C.
(P5IW) ±0.50"W.C.
(1IW) ±1.00"W.C.
(2P5IW) ±2.50"W.C.
(3IW) ±3.00"W.C.
(5IW) ±5.00"W.C.
(10IW) ±10.00"W.C.
(25IW) ±25.00"W.C.
(50IW) ±50.00"W.C.

Optional X-Variation
(XRK) Back Plate Adapter
(XRH) Calibration Report
(XCL) Special Calibration
(XCE) CE Compliant with 4-20mA output