

RXLdp Ultra-Low Differential Pressure Transmitter

FEATURES

- Current and voltage output signals available
- Custom ranges available
- Board level OEM versions available
- Si-Glass[™] technology enables precise measurement and control of very low pressures

TYPICAL USES

- HVAC/R
- Fume Hood Control
- Clean Room/Lab Pressurization
- Laminar Flow
- Leak Detection
- Medical
- Fan Tracking
- Glovebox and Velocity Measurements

PERFORMANCE SPECIFICATIONS

Reference Temperature:	70°F ±2°F (21°C ±1°F)			
Accuracy Class:	±1.0% of span (Terminal Point Method: includes non-linearity, hysteresis, non-repeatability, zero offset and span setting errors)			
Stability:	$\pm 0.5\%$ of span/year at reference conditions			
Media Compatibility:	Clean, dry and non-corrosive gas NOT FOR USE ON LIQUIDS			
Standard Response Time:	250ms			
ENVIRONMENT	AL SPECIFIC	ATIONS		
Temperature Limits:	Storage: -40°F to 180°F (-40°C to 82°C) Operating: 0°F to 160°F (-18°C to 70°C) Compensated: 40°F to 125°F (4.4°C to 52°C)			
Thermal Coefficients:	Zero and Span: ±0.025% of span/°F (from 70°F/21°C reference temperature)			
Vibration Sweep:	<0.05% span/g temporary effect 0-60Hz			
Humidity Effects:	No performance effect at 10-95% R.H. noncondensing			
EMC:		iant to EN61326: 1997 nized heavy industrial transmitter		
FUNCTIONAL S	PECIFICATIO	NS		
Mounting Position Effect:	≥0.5 IWC: ±0.1% of span/g <0.5 IWC: ±0.25% of span/g Calibrated horizontally (STD.), unless otherwise specified. Mounting Position Effect easily corrected with zero potentiometer			
Max. Static (Line) Pressure: 25 psi	Proof: 15 psid	Burst: 25 psid		

RXLdp Pressure Transmitter

*See Approvals on page 2 regarding CE and RoHS certifications.



KEY BENEFITS

- Broad temperature capability
- Superior long-term stability and repeatability
- High overpressure protection
- On board voltage regulation allows use of low cost unregulated power supply
- 3 year warranty

ELECTRICAL S	PECIFICATIONS				
Circuit Protection:	Reverse Wiring Protected				
Potentiometers:	Externally accessible, non-interactive Zero: $\pm 5\%$ of span Span: $\pm 3\%$ of span				
Supply Current:	<6 mA for Voltage output				
Warm-up Time:	5sec (Max.) to meet stated specifications from initial Power-up				
Output Signal:	4-20 mA (2 wire) 0-5 Vdc (3 wire) 1-5 Vdc (3 wire) 1-6 Vdc (3 wire) 0-10 Vdc (3 wire) Output signal is independent changes: 12-36 Vdc range w signal				

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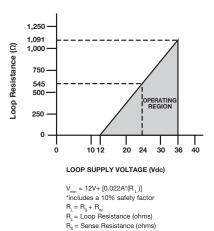


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PHYSICAL SPECIFICATIONS

Electrical Connection:	Screw Termination		
Weight:	4.5 oz		
Environmental Rating:	NEMA 1		
Pressure Connections:	$1\!\!/_8$ NPT Female, $1\!\!/_4$ and $1\!\!/_8$ barbed Male		
WETTED MATERIAL			
Media:	Clean, dry air/gases compatible with Aluminum, Titanium, PBT, Buna, Silicon, Glass, Gold, Silicone RUbber, Silicone RTV and Stainless Steel NOT FOR USE ON LIQUIDS		
Media:	Titanium, PBT, Buna, Silicon, Glass, Gold, Silicone RUbber, Silicone RTV and Stainless Steel NOT FOR USE ON LIQUIDS		

LOAD LIMITATIONS 4-20 mA OUTPUT



NON-WETTED MATERIAL			
Housing:	Stainless Steel/Lexan		
APPROVALS	:		

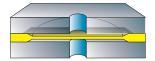
*Only units with 4-20 mA output and the 'XCE' option are CE and RoHS compliant.

CE Marked: Per DoC

Featuring a highly reliable variable capacitance sensor using the patented Ashcroft[®] Si-Glass[™] sensor. This ultra-thin single crystal diaphragm provides inherent sensor repeatability and stability.

Sensor Cross Section

R_w = Wire Resistance (ohms)



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

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ORDERING CODE	Example:	RX7	F01	42	ST	2IW	-XNH
Model							
RX7 - RXLdp Series, ±1.00% of span, ±0.025% of span T.C. /°F		RX7					
Pressure Connection							
F01 - 1/8 NPT Female			F01	-			
MB1 - Board level/No case				-			
MB2 - ¼ Barbed Male							
MB8 - 1/8 Barbed Male							
Output Signal				-			
05 - 0-5 Vdc							
10 - 0-10 Vdc							
15 - 1-5 Vdc							
16 - 1-6 Vdc							
42 - 4-20 mA				42			
Eletrical Termination							
ST - Screw Terminal					ST	-	
Pressure Range					01	_	
Unidirectional Ranges (differential)							
P1IW - 0.10 IWD							
P25IW - 0.25 IWD							
P5IW - 0.25 IWD							
P75IW - 0.75 IWD							
1IW - 1.00 IWD							
1P5IW - 1.50 IWD						0.11/	
2IW - 2.00 IWD						2IW	
2P5IW - 2.50 IWD							
3IW - 3.00 IWD							
5IW - 5.00 IWD							
10IW - 10.00 IWD							
25IW - 25.00 IWD							
50IW - 50.00 IWD							
Bi-directional Ranges							
P05IWL - ±0.05 IWD							
P1IWL - ±0.10 IWD							
P25IWL - ±0.25 IWD							
P5IWL - ±0.50 IWD							
1IWL - ±1.00 IWD							
2IWL - ± 2.00 IWD							
2P5IWL - ±2.50 IWD							
5IWL - ±5.00 IWD							
10IWL - ±10.00 IWD							
25IWL - ±25.00 IWD							
50IWL - ±50.00 IWD							
Option (if indicating an option(s) must include an "X")							-X
CE - CE Approval (with 4-20 mA only)							
CL - Custom pressure range calibration							
NH - SS tag							NH
NN - Paper tag							
RH - 9 pt. NIST Traceable calibration report							
RK - Back plate adapter							
V9 - Vertical Calibration							
X1 - Fast response time							
X2 - Slow response time							

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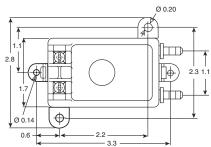


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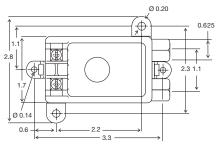
DIMENSIONS

For reference only, consult Ashcroft for specific dimensional drawings

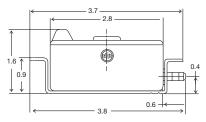
MB2 or MB8 Connection



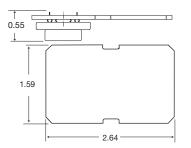
F01 Connection



MB2 or MB8 Connection



MB1 Board Level



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