

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



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





PERFORMANCE SPECIFICATIONS

Reference 70°F ±2°F (21°C ±1°F)

Temperature:

Accuracy Class: ±1.0% of span

(Terminal Point Method: includes non-linearity, hysteresis, non-repeatability, zero offset and span

setting errors)

Stability: ±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

ENVIRONMENTAL SPECIFICATIONS

Storage: -40°F to 180°F (-40°C to 82°C) Temperature Limits: Operating: 0°F to 160°F (-18°C to 70°C) Compensated: 40°F to 125°F (4.4°C to 52°C)

Zero and Span: ±0.025% of span/°F (from Thermal Coefficients:

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: CE model compliant to EN61326: 1997

Annex A. Harmonized heavy industrial transmitter

specification

FUNCTIONAL SPECIFICATIONS

Mounting Position ≥0.5 IWC: ±0.1% of span/g Effect: <0.5 IWC: $\pm 0.25\%$ of span/g

Calibrated horizontally (STD.), unless otherwise specified. Mounting Position Effect easily corrected with zero

potentiometer

Max. Static (Line)

Pressure: Proof: Burst: 25 psid 25 psi 15 psid

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 SPECIFICATIONS

signal

Circuit Protection:	Reverse Wiring Protected				
Potentiometers:	Externally accessible, non-interactive Zero: ±5% of span Span: ±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 independ changes: 12-36 Vdc range	12-36 Vdc 12-36 Vdc 12-36 Vdc 12-36 Vdc 12-36 Vdc lent of power supply e without effect on output			

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RXLdp Ultra-Low Differential Pressure Transmitter

PHYSICAL SPECIFICATIONS

Electrical Connection: Screw Termination

Weight: 4.5 oz

Environmental NEMA 1

Rating:

Pressure 1/8 NPT Female, 1/4 and 1/8 barbed Male

Connections:

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

NON-WETTED MATERIAL

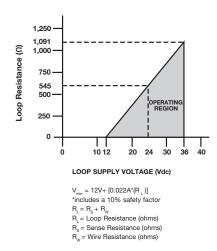
Housing: Stainless Steel/Lexan

APPROVALS:

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

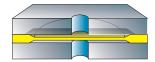
CE Marked: Per DoC

LOAD LIMITATIONS 4-20 mA OUTPUT



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



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		TIXI					
F01 - 1/8 NPT Female			F01	_			
MB1 - Board level/No case			101	-			
MB2 - 1/4 Barbed Male				_			
MB8 - 1/6 Barbed Male				-			
				_			
Output Signal							
05 - 0-5 Vdc							
10 - 0-10 Vdc 15 - 1-5 Vdc							
16 - 1-6 Vdc				40			
42 - 4-20 mA				42			
Eletrical Termination					O.T.		
ST - Screw Terminal					ST		
Pressure Range							
Unidirectional Ranges (differential)							
P1IW - 0.10 IWD							
P25IW - 0.25 IWD							
P5IW - 0.50 IWD							
P75IW - 0.75 IWD							
1IW - 1.00 IWD							
1P5IW - 1.50 IWD							
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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All specifications are subject to change without notice.
All sales subject to standard terms and conditions.

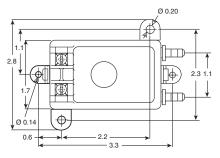


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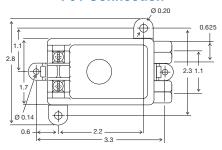
DIMENSIONS

For reference only, consult Ashcroft for specific dimensional drawings

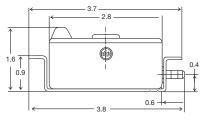
MB2 or MB8 Connection



F01 Connection



MB2 or **MB8** Connection



MB1 Board Level

