

## AXLdp Low Differential Pressure Transmitter

### FEATURES

- UL94-V0 rated PBT case
- Calibrated ratiometric output
- Low voltage power requirement
- Easy mounting to PCBs
- Available in pressure ranges below 0.5 IWC

### TYPICAL USES

- Flow Measurements
- Room Pressure Control
- Energy Management
- Fan Control
- HVAC and VAV



**AXLdp**  
Pressure Transmitter



### PERFORMANCE SPECIFICATIONS

Reference Temperature:	70°F ±2°F (21°C ±1°C)
Accuracy Class:	±2.0%, ±1.0% of span (Terminal Point Method: includes non-linearity, hysteresis, non-repeatability, zero offset and span setting errors)
Stability:	≤±0.50% span/year
Media Compatibility:	Clean, dry and non-corrosive gas NOT FOR USE ON LIQUIDS

### ENVIRONMENTAL SPECIFICATIONS

Temperature Limits:	Storage: -40°F to 158°F (-40°C to 70°C) Operating: -4°F to 140°F (-20°C to 60°C) Compensated: 37°F to 127°F (3°C to 53°C)
Thermal Coefficients:	Zero & Span: ±0.10% of span/°F (±0.18% Span/°C)
Humidity Effects:	No performance effect at 10-95% R.H. noncondensing

### FUNCTIONAL SPECIFICATIONS

Mounting Position:	Calibration in vertical position (STD.)	
Overpressure Limits:	Proof: 7.25 psid	Burst: 11.60 psid
Max. Static Line Pressure:	11.60 psi	

### ELECTRICAL SPECIFICATIONS

Output Signal (Ratiometric):	(10% to 90% of the supplied voltage) 0.5 to 4.5 V with a 5 Vdc supply
Supply Voltage:	4.75 to 5.25 Vdc

### KEY BENEFITS

- OEM product
- Broad temperature capability
- High performance ASIC based electronics
- Superior long-term stability and repeatability
- Compact design: 1.18" x 1.65" x 0.37"

### PHYSICAL SPECIFICATIONS

Pressure Connection:	3/32" I.D. tubing
Mating Electrical Connection:	JST BHR-03VS-1
Weight:	0.35 oz without leads
Environmental Rating:	IP20, NEMA 1(meets UL94-V0)

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### WETTED MATERIAL

Media

Clean, dry air/gases compatible with Silicon, Glass, Gold, Titanium, Ceramic, Silicone Rubber, Aluminum and PBT  
NOT FOR USE ON LIQUIDS

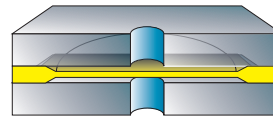
### NON-WETTED

Housing

PBT (meets UL94-V0)

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.

ORDERING CODE	Example:	AX9	MB3	RM	ST	2IW
<b>Model &amp; Accuracy</b>						
AX7 - AXLdp Series, ±1.0% of span						
AX9 - AXLdp Series, ±2.0% of span		AX9				
<b>Pressure Connection</b>						
MB3 - 3mm tube stub			MB3			
<b>Output Signal</b>						
RM - 0.5-4.5 Vdc ratiometric output				RM		
<b>Electrical Termination</b>						
NC - No leads						
ST - Leads with JST Connector					ST	
<b>Pressure Range</b>						
<b>Unidirectional Ranges (differential)</b>						
P2IW - 0.20 IWD						
P25IW - 0.25 IWD						
P5IW - 0.50 IWD						
P75IW - 0.75 IWD						
1IW - 1.00 IWD						
2IW - 2.00 IWD						2IW
2P5IW - 2.50 IWD						
4IW - 4.00 IWD						
5IW - 5.00 IWD						
10IW - 10.00 IWD						
15IW - 15.00 IWD						
20IW - 20.00 IWD						
<b>Bi-directional Ranges</b>						
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						
7P5IWL - ±7.50 IWD						
10IWL - ±10.00 IWD						

Consult factory for custom calibration ranges and other temperature compensation ranges

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**DIMENSIONS** in [ ] are millimeters

For reference only, consult Ashcroft for specific dimensional drawings

