Data Sheet

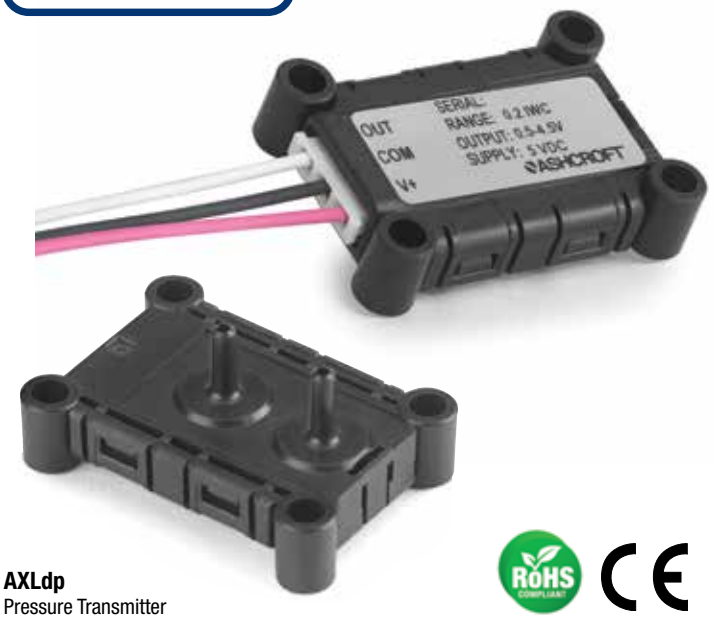
ASHCROFT®
Trust the shield.®

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 in. H_2O

TYPICAL USES
- Flow measurements
- Room pressure control
- Energy management
- Fan control
- HVAC and VAV

TruAccuracy™



AXLdp
Pressure Transmitter

PERFORMANCE SPECIFICATIONS

Reference Temperature:	70°F ±2°F (21°C ±1°C)
Accuracy:	±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 WITH 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: ±0.10% of span/°F (±0.18% span/°C) 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 (standard)	
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

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)

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″**
- **3 year warranty**

WETTED MATERIAL

Media

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

NON-WETTED

Housing

PBT (meets UL94-V0)

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What Does It Mean?

Ashcroft's TruAccuracy™ specification is exclusively based on terminal point methodology instead of statistically derived schemes like 'best fit straight line'.

TruAccuracy™ means the Ashcroft AXLdp has ±1.00% of span accuracy out of the box. Zero and span setting errors are already included in the ±1.00% of span accuracy spec.

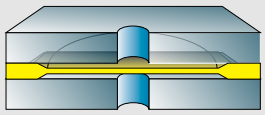
The AXLdp is ready to be installed with no additional calibration adjustments required.

A unit from another manufacturer advertised as ±1.00% best fit straight line may actually be a ±2.00% to ±3.00% device. Using best fit straight line method, the accuracy spec does not include zero and span setting errors, which can be as much as ±1.00% each.

Ashcroft® Si-Glas™ Sensor Technology

Featuring a highly reliable variable capacitance sensor using the patented Ashcroft® Si-Glas™ 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
Model & Accuracy					
AX7 - AXLdp Series, ±1.0% of span					
AX9 - AXLdp Series, ±2.0% of span	AX9				
Pressure Connection					
MB3 - 3mm tube stube		MB3			
Output Signal					
RM - 0.5-4.5 Vdc ratiometric output			RM		
Electrical Termination					
NC - No leads					
ST - Leads with JST Connector				ST	
Pressure Range					
Unidirectional Ranges (differential)					
P2IW - 0.20 in. H_2O differential					
P25IW - 0.25 in. H_2O differential					
P5IW - 0.50 in. H_2O differential					
P75IW - 0.75 in. H_2O differential					
1IW - 1.00 in. H_2O differential					
2IW - 2.00 in. H_2O differential					2IW
2P5IW - 2.50 in. H_2O differential					
4IW - 4.00 in. H_2O differential					
5IW - 5.00 in. H_2O differential					
10IW - 10.00 in. H_2O differential					
15IW - 15.00 in. H_2O differential					
20IW - 20.00 in. H_2O differential					
Bi-directional Ranges					
P1IWL - ±0.10 in. H_2O differential					
P25IWL - ±0.25 in. H_2O differential					
P5IWL - ±0.50 in. H_2O differential					
1IWL - ±1.00 in. H_2O differential					
2IWL - ±2.00 in. H_2O differential					
2P5IWL - ±2.50 in. H_2O differential					
5IWL - ±5.00 in. H_2O differential					
7P5IWL - ±7.50 in. H_2O differential					
10IWL - ±10.00 in. H_2O differential					

Consult factory for custom calibration ranges and other temperature compensation ranges

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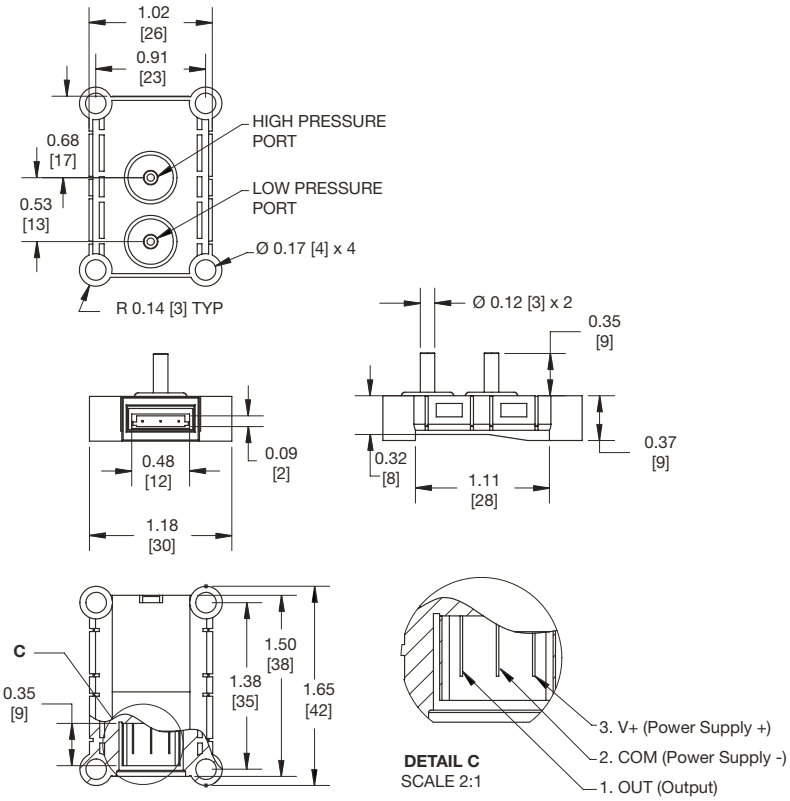
DIMENSIONS are identified in inches and [millimeters]

For reference only, consult Ashcroft for specific dimensional drawings.



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