Data Sheet

GXLdp Differential Indicating Pressure Transducer

FEATURES

- TruAccuracy™- Terminal Point Accuracy method includes non-linearity, hysteresis, non-repeatability, zero offset and span setting errors.
- ±0.25% of span accuracy available for any specific range.
- Field selectable outputs: 4-20 mA, 0-5 Vdc, 1-5 Vdc 1-6 Vdc, 0-10 Vdc
- Exclusive patented Ashcroft SpoolCal™ actuator provides in-place system calibration
- Large LCD with backlight
- Wall, panel or DIN rail mountable versions
- Two programmable switch outputs (optional)

TYPICAL USES

- Pharma/Biotech research and production areas
- HVAC Building automation and comfort control
- Air flow measurements
- Critical environmental control - isolation rooms/cleanrooms

GXLdp
Pressure Transmitter

PERFORMANCE SPECIFICATIONS

Accuracy Class:	±0.25% of span, ±0.5% of span (**Terminal Point Method**: includes non-linearity, hysteresis, non-repeatability, zero offset and span setting errors)
Reference Temperature:	70 °F ±2 °F (21 °C ±1 °C)
Stability:	≤±0.25% of span/year at reference conditions
Media Compatibility:	Clean, dry and non-corrosive gas NOT FOR USE WITH LIQUIDS
Adjustable Display Response Time:	250 ms, 1 sec, 3 sec or 5 sec

ENVIRONMENTAL SPECIFICATIONS

Temperature Limits:	Storage:	–22 °F to 158 °F (–30 °C to 70 °C)
	Operating:	–4 °F to 158 °F (–20 °C to 70 °C)
	Compensated:	35 °F to 130 °F (1.6 °C to 54 °C)
Thermal Coefficients:	Zero: ±0.03% of Span/°F Span: ±0.03% of Span/°F (From 70 °F reference temperature)	

FUNCTIONAL SPECIFICATIONS

Max. Static (Line) Pressure:	Proof Pressure:	Burst Pressure:
25 psi	15 psid	25 psid

Mounting Position Effect:	±1% of span/g (Calibration in vertical position is standard)

ELECTRICAL SPECIFICATIONS

Circuit Protection:	Reverse polarity and miswire protected
Zero Adjustment: Span Adjustment:	± 5% of span (accessible through menu) ± 5% of full-scale value (accessible through menu)

KEY BENEFITS

- **Spool Cal™ process valve actuator provides in-place system calibration without disturbing any process tubes**
- **IP67/NEMA 4 housing**
- **Traceable calibration chart (standard)**
- **Excellent long term stability**
- **3 year warranty**

Output Supply:	Supply Voltage:	Maximum Supply Current/ Power Consumption:
4-20 mA (2 wire)	12-40 Vdc	23 mA (1 VA)
4-20 mA (3 wire)	12-40 Vdc	0.75 VA
0-5 Vdc (3 wire)	12-40 Vdc/24 Vac (±20%)	0.75 VA / 1.75 VA
1-5 Vdc (3 wire)	12-40 Vdc/24 Vac (±20%)	0.75 VA / 1.75 VA
1-6 Vdc (3 wire)	12-40 Vdc/24 Vac (±20%)	0.75 VA / 1.75 VA
0-10 Vdc (3 wire)	12-40 Vdc/24 Vac (±20%)	0.75 VA / 1.75 VA

(Supply currents listed above do not include contribution from the switch function)

LCD Display:	3-5 digits depending on range
LCD Screen Dimensions:	2.63″ Width x 1.38″ Height
LCD Character Size:	7-segment (Numeric display): 0.32″ Width x 0.65″ Height 14-segment (Alphanumeric display): 0.28″ Width x 0.49″ Height

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PHYSICAL SPECIFICATIONS

Pressure Connections:	⅛ NPT female ¼ Barbed male 3⁄16 Barbed male NOTE: Fittings kit includes all three fittings that will be supplied as standard
Electrical Connection:	½ NPT Female Conduit Connection/PG9 Watertight Cable Gland included. Electrical connections made to a pluggable terminal block which accepts 18-24 AWG wires.
Weight:	0.8 lbs
Mounting:	DIN rail, wall mount, optional panel mount
Enclosure Rating:	UL 94-V0 Flame- retardant ABS, IP67/NEMA 4

SWITCH FEATURE

Switch outputs:	(2) NPN or PNP - Field programable (set and reset) Note: Switch function can only be used with a 3-wire output

WETTED MATERIAL

Media

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

NON-WETTED

Housing

Fire-retardant ABS (Meets UL 94-V0)

TruAccuracy™ 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 GXLdp has ±0.25% of span accuracy out of the box. Zero and span setting errors are already included in the ±0.25% of span accuracy spec.

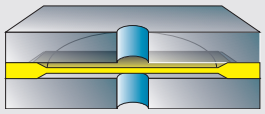
The GXLdp is ready to be installed with no additional calibration adjustments required.

A unit from another manufacturer advertised as ±0.25% best fit straight line may actually be a ±1.25% to ±2.25% 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:	GX	3	P25IW	-XPV
Model					
GX - GXLdp		GX			
Accuracy					
3 - ±0.25% of span			3		
5 - ±0.5% of span					
Pressure Ranges (per listing on page 3, 4, 5)					
0.25 in. H_2O - P25IW				P25IW	
Options					
PV - SpoolCal™					XPV
1S - Switch					
HK - Panel mount					
NH - Stainless steel tag					
NN - Paper tag					

Nine point traceable calibration certificate standard with every unit

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STANDARD PRESSURE RANGES
Inches Water Column Unidirectional
P1IW - 0.10 in. H_2O differential
P2IW - 0.20 in. H_2O differential
P25IW - 0.25 in. H_2O differential
P4IW - 0.40 in. H_2O differential
P5IW - 0.50 in. H_2O differential
P6IW - 0.60 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
2P5IW - 2.50 in. H_2O differential
3IW - 3.00 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
25IW - 25.00 in. H_2O differential
Inches Water Column Bi-directional
P05IWL - ±0.05 in. H_2O differential
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
3IWL - ±3.00 in. H_2O differential
5IWL - ±5.00 in. H_2O differential
8IWL - ±8.00 in. H_2O differential
10IWL - ±10.00 in. H_2O differential
15IWL - ±15.00 in. H_2O differential
25IWL - ±25.00 in. H_2O differential

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STANDARD PRESSURE RANGES
Pascal/KiloPascal Unidirectional
25PA - 25 Pa differential
50PA - 50 Pa differential
60PA - 60 Pa differential
100PA - 100 Pa differential
125PA - 125 Pa differential
160PA - 160 Pa differential
200PA - 200 Pa differential
250PA - 250 Pa differential
300PA - 300 Pa differential
400PA - 400 Pa differential
500PA - 500 Pa differential
600PA - 600 Pa differential
1KPA - 1.00 kPa differential
1P6KPA - 1.60 kPa differential
2KPA - 2.00 kPa differential
2P5KPA - 2.50 kPa differential
4KPA - 4.00 kPa differential
5KPA - 5.00 kPa differential
6KPA - 6.00 kPa differential
Pascal/KiloPascal Bi-directional
15PAL - ±15 Pa differential
25PAL - ±25 Pa differential
30PAL - ±30 Pa differential
50PAL - ±50 Pa differential
60PAL - ±60 Pa differential
100PAL - ±100 Pa differential
125PAL - ±125 Pa differential
160PAL - ±160 Pa differential
200PAL - ±200 Pa differential
300PAL - ±300 Pa differential
400PAL - ±400 Pa differential
500PAL - ±500 Pa differential
600PAL - ±600 Pa differential
1KPAL - ±1.00 kPa differential
1P25KPAL - ±1.25 kPa differential
1P6KPAL - ±1.60 kPa differential
2KPAL - ±2.00 kPa differential
2P5KPAL - ±2.50 kPa differential
4KPAL - ±4.00 kPa differential
5KPAL - ±5.00 kPa differential

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STANDARD PRESSURE RANGES
Millibar Unidirectional
P25MB - 0.25 mb differential
P5MB - 0.50 mb differential
P6MB - 0.60 mb differential
1MB - 1.00 mb differential
1P25MB - 1.25 mb differential
1P6MB - 1.60 mb differential
2MB - 2.00 mb differential
2P5MB - 2.50 mb differential
3MB - 3.00 mb differential
4MB - 4.00 mb differential
5MB - 5.00 mb differential
6MB - 6.00 mb differential
10MB - 10.00 mb differential
16MB - 16.00 mb differential
20MB - 20.00 mb differential
25MB - 25.00 mb differential
40MB - 40.00 mb differential
50MB - 50.00 mb differential
60MB - 60.00 mb differential
Millibar Bi-directional
P15MBL - ±0.15 mb differential
P25MBL - ±0.25 mb differential
P3MBL - ±0.30 mb differential
P5MBL - ±0.50 mb differential
P6MBL - ±0.60 mb differential
1MBL - ±1.00 mb differential
1P25MBL - ±1.25 mb differential
1P6MBL - ±1.60 mb differential
2MBL - ±2.00 mb differential
3MBL - ±3.00 mb differential
4MBL - ±4.00 mb differential
5MBL - ±5.00 mb differential
6MBL - ±6.00 mb differential
10MBL - ±10.00 mb differential
12P5MBL - ±12.50 mb differential
16MBL - ±16.00 mb differential
20MBL - ±20.00 mb differential
25MBL - ±25.00 mb differential
40MBL - ±40.00 mb differential
50MBL - ±50.00 mb differential

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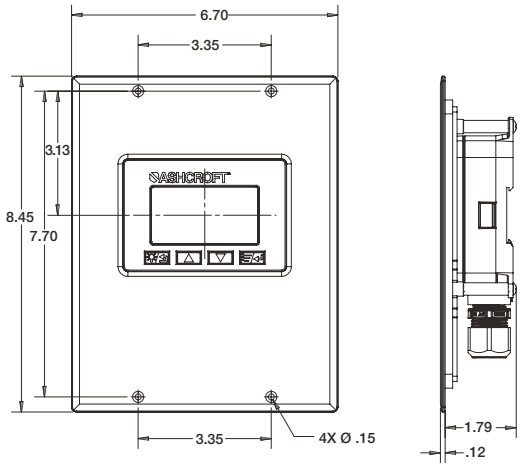
PANEL MOUNTING DIMENSIONS are identified in inches

For reference only, consult Ashcroft for specific dimensional drawings.



GENERAL DIMENSIONS are identified in inches

For reference only, consult Ashcroft for specific dimensional drawings.