## **Data Sheet**



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# GXLdp Differential Indicating Pressure Transducer

## FEATURES

- TruAccuracy<sup>™</sup>- 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<sup>™</sup> 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

### PERFORMANCE SPECIFICATIONS

Accuracy Class:	$\pm 0.25\%$ of span, $\pm 0.5\%$ of span ( <b>Terminal Point Method</b> : includes non-linearity, hysteresis, non-repeatability, zero offset and span setting errors)
Reference Temperature:	70 °F ±2 °F (21 °C ±1 °C)
Stability:	$\leq \pm 0.25\%$ 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: Operating: Compensated:	-22 °F to 158 °F (-30 °C to 70 °C) -4 °F to 158 °F (-20 °C to 70 °C) 35 °F to 130 °F (1.6 °C to 54 °C)
Thermal Coefficients	7oro: ±0.03% o	f Snan/°E

al Coefficients: Zero: ±0.03% of Span/°F Span: ±0.03% of Span/°F (From 70 °F reference temperature)

### FUNCTIONAL SPECIFICATIONS

Max. Static (Line) F	ressure:	Proof Pressure:	Burst Pressure:				
25 psi		15 psid	25 psid				
Mounting Position	±1% of span/	g	tandard)				
Effect:	(Calibration in	vertical position is s					
ELECTRICAL SPECIFICATIONS							
Circuit Protection:	Reverse pola	rity and miswire prot	ected				
Zero Adjustment:	$\pm$ 5% of spar	ı (accessible through	n menu)				
Span Adjustment:	$\pm$ 5% of full-s	scale value (accessit	ble through menu)				

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Pressure Transmitter

GXLdp

## **KEY BENEFITS**

 Spool Cal<sup>™</sup> process valve actuator provides in-place system calibration without disturbing any process tubes

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- 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 <sup>°</sup> Width x 0.65 <sup>°</sup> Height 14-segment (Alphanumeric display): 0.28 <sup>°</sup> Width x 0.49 <sup>°</sup> Height						

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# GXLdp Differential Indicating Pressure Transducer

PHYSICAL SPE	ECIFICATIONS								
Pressure Connections:	⅓ NPT female ¼ Barbed male ¾6 Barbed male NOTE: Fittings kit includes all three fittings that will be supplied as standard	Ashcroft's TruAccuracy <sup>™</sup> specification is exclusively based on terminal point methodology instead of statistically derived schemes like 'best fit straight line'.							
Electrical Connection:	1/2 NPT Female Conduit Connection/PG9 Watertight Cable Gland included. Electrical connections made to a pluggable terminal block which accepts 18-24 AWG wires.	TruAccuracy <sup>TM</sup> means the Ashcroft GXLdp has $\pm 0.25\%$ of span accuracy out of the box. Zero and span setting errors are already included in the $\pm 0.25\%$ of span accuracy spec. The GXLdp is ready to be installed with no additional calibration							
Weight:	0.8 lbs	adju	ustments requir	ed.					
Mounting:	DIN rail, wall mount, optional panel mount	A u	nit from anothe	r manufac	turer advert	ised as $\pm 0$ .	25% best fit		
Enclosure Rating:	UL 94-V0 Flame- retardant ABS, IP67/NEMA 4	stra fit s	aignt line may a straight line met	hod, the a	a ±1.25% t accuracy spe	0 ±2.25% ( ec does not	include zero and		
SWITCH FEAT	JRE	spa	in setting errors	, which ca	an be as mu	ch as $\pm 1.00$	0% each.		
Switch outputs:	(2) NPN or PNP - Field programable (set and reset) Note: Switch function can only be used with a 3-wire output	As	hcroft <sup>®</sup> Si-	Glas™	Sensor 1	Technolo	ogy		
WETTED MATE	ERIAL	Fea	Featuring a highly reliable variable capacitance sensor using the						
	Media	diaphragm provides inherent sensor repeatability and stability.							
Clean, dry air/gases compatible with Aluminum, Titanium, PBT, Buna, Glass, Gold, Silicone Rubber, Silicon, Silicone RTV and Brass NOT FOR USE WITH LIQUIDS		Sensor Cross Section The silicon diaphragm sensor has no glues or other organics to contribute to drift or mechanical							
NON-WETTED		degradation over time.							
	Housing								
-	Fire-retardant ABS (Meets UL 94-V0)								
	DE Example:		GX	3	P25IW	-XPV			
GX - GXLdp			GX						
Accuracy					_				
3 - ±0.25% of span				3	-				
Pressure Ranges (pe	r attached range chart)				-				
0.25 in. H <sub>2</sub> O - P25IW					P25IW				
Options									
PV - SpoolCal™						XPV			
1S - Switch									
NH - Stainless steel ta	a								
	J								

NN - Paper tag

Nine point traceable calibration certificate standard with every unit

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# GXLdp Differential Indicating Pressure Transducer

STANDARD PRESSURE RANGES											
in. $H_2$ 0 Unid	Code	in. H <sub>2</sub> O Bidir	Code	Pa Unid	Code	Pa Bidir	Code	mb Unid	Code	mb Bidir	Code
0.10 in. $\rm H_{2}O$	P1IW	(±) 0.05 in. $H_20$	P05IWL	25 Pa	25PA	(±) 15 Pa	15PAL	0.25 mb	P25MB	(±) 0.15 mb	P15MBL
0.20 in. H <sub>2</sub> 0	P2IW	$(\pm)$ 0.10 in. H <sub>2</sub> 0	P1IWL	50 Pa	50PA	(±) 25 Pa	25PAL	0.50 mb	P5MB	(±) 0.25 mb	P25MBL
$0.25 \text{ in. } \mathrm{H_2O}$	P25IW	(±) 0.25 in. $\mathrm{H_20}$	P25IWL	60 Pa	60PA	(±) 30 Pa	30PAL	0.60 mb	P6MB	(±) 0.30 mb	P3MBL
0.40 in. H <sub>2</sub> 0	P4IW	(±) 0.50 in. $H_2O$	P5IWL	100 Pa	100PA	(±) 50 Pa	50PAL	1.00 mb	1MB	(±) 0.50 mb	P5MBL
0.50 in. $\mathrm{H_2O}$	P5IW	(±) 1.00 in. $H_20$	1IWL	125 Pa	125PA	(±) 60 Pa	60PAL	1.25 mb	1P25MB	(±) 0.60 mb	P6MBL
0.60 in. H <sub>2</sub> 0	P6IW	(±) 2.00 in. $H_20$	2IWL	160 Pa	160PA	(±) 100 Pa	100PAL	1.60 mb	1P6MB	(±) 1.00 mb	1MBL
0.75 in. $H_2O$	P75IW	(±) 2.50 in. $H_2O$	2P5IWL	200 Pa	200PA	(±) 125 Pa	125PAL	2.00 mb	2MB	(±) 1.25 mb	1P25MBL
1.00 in. H <sub>2</sub> 0	1IW	$(\pm)$ 3.00 in. H <sub>2</sub> 0	3IWL	250 Pa	250PA	(±) 160 Pa	160PAL	2.50 mb	2P5MB	(±) 1.60 mb	1P6MBL
$2.00$ in. $H_2O$	2IW	(±) 5.00 in. $H_2O$	5IWL	300 Pa	300PA	(±) 200 Pa	200PAL	3.00 mb	3MB	(±) 2.00 mb	2MBL
2.50 in. $H_2^{0}$	2P5IW	$(\pm)$ 8.00 in. H <sub>2</sub> 0	8IWL	400 Pa	400PA	(±) 300 Pa	300PAL	4.00 mb	4MB	(±) 3.00 mb	3MBL
$3.00$ in. $H_2O$	3IW	(±) 10.00 in. $H_20$	10IWL	500 Pa	500PA	(±) 400 Pa	400PAL	5.00 mb	5MB	(±) 4.00 mb	4MBL
5.00 in. H <sub>2</sub> 0	5IW	(±) 15.00 in. $H_20$	15IWL	600 Pa	600PA	(±) 500 Pa	500PAL	6.00 mb	6MB	(±) 5.00 mb	5MBL
10.00 in. $\mathrm{H_2O}$	10IW	(±) 25.00 in. $\mathrm{H_20}$	25IWL	1.00 kPa	1KPA	(±) 600 Pa	600PAL	10.00 mb	10MB	(±) 6.00 mb	6MBL
$15.00 \text{ in. H}_20$	15IW			1.60 kPa	1P6KPA	(±) 1.0 kPa	1KPAL	16.00 mb	16MB	(±) 10.00 mb	10MBL
20.00 in. $\mathrm{H_20}$	20IW			2.00 kPa	2KPA	(±) 1.25 kPa	1P25KPAL	20.00 mb	20MB	(±) 12.50 mb	12P5MBL
25.00 in. $H_2O$	25IW			2.50 kPa	2P5KPA	(±) 1.6 kPa	1P6KPAL	25.00 mb	25MB	(±) 16.00 mb	16MBL
				4.00 kPa	4KPA	(±) 2.00 kPa	2KPAL	40.00 mb	40MB	(±) 20.00 mb	20MBL
				5.00 kPa	5KPA	(±) 2.50 kPa	2P5KPAL	50.00 mb	50MB	(±) 25.00 mb	25MBL
				6.00 kPa	6KPA	(±) 4.00 kPa	4KPAL	60.00 mb	60MB	(±) 40.00 mb	40MBL
						(±) 5.00 kPa	5KPAL			(±) 50.00 mb	50MBL

## PANEL MOUNTING DIMENSIONS are identified in inches

#### For reference only, consult Ashcroft for specific dimensional drawings.

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#### **GENERAL DIMENSIONS** are identified in inches

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