

GL42 Low Differential Indicating Pressure Transmitter

FEATURES

- Si-Glass™ technology ensures high sensitivity and performance
- Four digit LCD display
- Adjustable display response time: 250ms, 1sec, 3sec or 5sec
- Wall, Panel or DIN Rail Mountable versions

TYPICAL USES

- Filter Monitoring
- Flow Measurement
- Fume Hood Control
- HVAC
- Building Energy Management / Comfort Control Systems
- Critical Environments
- Laminar Flow
- Laboratory / Clean Room / Hospital Room Pressurization



GL42 Differential Pressure Transmitter



PERFORMANCE SPECIFICATIONS

Reference Temperature:	77°F (25°C)
Standard Response Time:	250ms
Accuracy Class:	±0.5%, ±1.0% of span (Terminal Point Method: includes non-linearity, hysteresis, non-repeatability, zero offset and span setting errors)
Repeatability:	≤0.1% F.S.
Stability:	≤±0.5% of span/year
Media Compatibility:	Clean dry and non-corrosive gas NOT FOR USE ON LIQUIDS

ENVIRONMENTAL SPECIFICATIONS

Thermal Coefficients:	Zero & Span; ±0.06% of span/°K (From 77°F/25°C Reference temperature within 35°F to 129°F (2°C to 54°C))
Temperature Limits:	Storage: -40°F to 194°F (-40°C to 90°C) Operating: -4°F to 158°F (-20°C to 70°C) Compensated: 35°F to 129°F (2°C to 54°C)
Humidity:	10-90% R.H. Noncondensing

FUNCTIONAL SPECIFICATIONS

Max Static Line Pressure: 25 psi	Proof: 15 psid	Burst: 25 psid
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ELECTRICAL SPECIFICATIONS

Output Signal:	4-20 mA (2-wire)
Supply Voltage:	19-36 Vdc (Nominal 24 Vdc)
Zero and Span Potentiometers:	±5% F.S.
LCD Display:	4 digits

KEY BENEFITS

- Field-selectable units (IWC, Pa, mbar)
- NIST traceable calibration chart (OPT.)
- IP65 Housing
- 2 year warranty

LCD Screen Dimensions:	Width: 1.77" (45mm) Height: 0.75" (19mm)
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LCD Character Size:	Height: 0.21" (5.4mm) Width: 0.45" (11.5mm)
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CE-Compliance:	EN 61000-4-2, EN 61000-4-3
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PHYSICAL SPECIFICATIONS

Pressure Connection:	1/8 NPT Female or 1/4 Male Barbed Fitting
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Enclosure Rating:	IP65
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Weight:	9.9 oz.
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Electrical Connection:	1/2" Female DIN cable conduit (standard) PG9 cable gland (optional)
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Cable Connection Socket:	Nylon
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Front Foil:	Polyester
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Mounting:	Wall mount (standard)
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WETTED MATERIAL

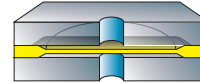
Media
Clean, dry air/gases compatible with Aluminum, Titanium, PBT, Buna, Glass,
Gold, Silicone Rubber, Silicon, Silicone RTV & Brass
NOT FOR USE ON LIQUIDS

NON-WETTED

Enclosure
Nylon

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:	GL425	MB2	42	CD	W	25IW	-XRH
Model								
GL425 - ±0.50% Accuracy of span, ±0.06% Span T.C. /°K		GL425						
GL427 - ±1.00% Accuracy of span, ±0.06% Span T.C. /°K								
Pressure Connection								
F01 - 1/8 NPT Female								
MB2 - 1/4 Male barbed			MB2					
Output Signal								
42 - 4-20 mA				42				
Electrical Termination								
CD - Conduit					CD			
CG - Cable gland								
Mounting								
W - Wall						W		
D - Din rail								
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								
2IW - 2.00 IWD								
2P5IW - 2.50 IWD								
3IW - 3.00 IWD								
5IW - 5.00 IWD								
10IW - 10.00 IWD								
15IW - 15.00 IWD								
25IW - 25.00 IWD							25IW	
Bi-directional ranges								
P1IWL - ±0.10 IWD								
P25IWL - ±0.25 IWD								
P5IWL - ±0.50 IWD								
P75IWL - ±0.75 IWD								
1IWL - ±1.00 IWD								
2IWL - ±2.00 IWD								
5IWL - ±5.00 IWD								
10IWL - ±10.00 IWD								
15IWL - ±15.00 IWD								
Option (if including an option(s) must include an "X")								-X_
HK - Panel mount option (only provided when ordered with 'W' wall mount version.)								
NH - SS Tag								
RH - 9 pt. NIST traceable calibration report								RH

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DIMENSIONS

For reference only, consult Ashcroft for specific dimensional drawings

