

## GL42 Low Differential Indicating Pressure Transmitter

### FEATURES

- Si-Glas™ 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:	±0.5%, ±1.0% of span ( <b>Terminal Point Method:</b> includes non-linearity, hysteresis, non-repeatability, zero offset and span setting errors)
Repeatability:	≤0.1% of span
Stability:	≤±0.5% of span/year
Media Compatibility:	Clean dry and non-corrosive gas NOT FOR USE WITH LIQUIDS

### ENVIRONMENTAL SPECIFICATIONS

Thermal Coefficients:	Zero: ±0.06% of span/°K Span: ±0.06% of span/°K (From 77 °F/25 °C reference temperature)
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:	Proof:	Burst:
25 psi	15 psid	25 psid

### ELECTRICAL SPECIFICATIONS

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

### KEY BENEFITS

- Field-selectable units (IWC, Pa, mbar)
- Traceable calibration certificate (optional)
- IP65 Housing
- 2 year warranty

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

### PHYSICAL SPECIFICATIONS

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

# Data Sheet

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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 WITH LIQUIDS

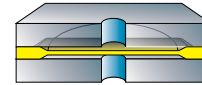
### NON-WETTED

#### Enclosure

Nylon

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:	GL425	MB2	42	CD	W	25IW	-XRH
<b>Model</b>								
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								
<b>Pressure Connection</b>								
F01 - 1/8 NPT Female								
MB2 - 1/4 Male barbed			MB2					
<b>Output Signal</b>								
42 - 4-20 mA				42				
<b>Electrical Termination</b>								
CD - Conduit					CD			
CG - Cable gland								
<b>Mounting</b>								
W - Wall						W		
D - Din rail								
<b>Pressure Range Differential</b>								
<b>Unidirectional Ranges</b>								
P1IW - 0.10 in. H <sub>2</sub> O								
P25IW - 0.25 in. H <sub>2</sub> O								
P5IW - 0.50 in. H <sub>2</sub> O								
P75IW - 0.75 in. H <sub>2</sub> O								
1IW - 1.00 in. H <sub>2</sub> O								
2IW - 2.00 in. H <sub>2</sub> O								
2P5IW - 2.50 in. H <sub>2</sub> O								
3IW - 3.00 in. H <sub>2</sub> O								
5IW - 5.00 in. H <sub>2</sub> O								
10IW - 10.00 in. H <sub>2</sub> O								
15IW - 15.00 in. H <sub>2</sub> O								
25IW - 25.00 in. H <sub>2</sub> O							25IW	
<b>Bi-directional ranges</b>								
P1IWL - ±0.10 in. H <sub>2</sub> O								
P25IWL - ±0.25 in. H <sub>2</sub> O								
P5IWL - ±0.50 in. H <sub>2</sub> O								
P75IWL - ±0.75 in. H <sub>2</sub> O								
1IWL - ±1.00 in. H <sub>2</sub> O								
2IWL - ±2.00 in. H <sub>2</sub> O								
5IWL - ±5.00 in. H <sub>2</sub> O								
10IWL - ±10.00 in. H <sub>2</sub> O								
15IWL - ±15.00 in. H <sub>2</sub> O								
<b>Option (if including an option(s) must include an "X")</b>								-X_
HK - Panel mount option (only provided when ordered with 'W' wall mount version.)								
NH - Stainless steel Tag								
RH - <a href="#">Traceable calibration certificate</a>								RH

## Data Sheet

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### DIMENSIONS are in inches

For reference only, consult Ashcroft for specific dimensional drawings.

