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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 77°F (25°C)

Temperature:

Standard 250ms

Response Time:

 $\pm 0.5\%$, $\pm 1.0\%$ of span (**Terminal Point Method:** Accuracy:

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 Zero: ±0.06% of span/°K Coefficients: Span: ±0.06% of span/°K

(From 77°F/25°C reference temperature)

Storage: -40°F to 194°F (-40°C to 90°C) Temperature Operating: -4°F to 158°F (-20°C to 70°C) Limits: Compensated: 35°F to 129°F (2°C to 54°C)

Humidity: 10-90% R.H. Noncondensing

FUNCTIONAL SPECIFICATIONS

Max Static Line Proof: Burst: Pressure: 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 ±5% F.S.

Potentiometers:

KEY BENEFITS

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

LCD Display: 4 digits

LCD Screen Width: 1.77" (45mm) Dimensions: 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 1/2" Female DIN cable conduit (standard)

PG9 cable gland (optional) Connection: Nylon

Cable Connection

Socket:

Front Foil: Polyester

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 WITH LIQUIDS

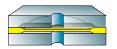
NON-WETTED

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
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 in. H ₂ O differential								
P25IW - 0.25 in. H₂O differential								
P5IW - 0.50 in. H ₂ O differential								
P75IW - 0.75 in. H ₂ O differential								
1IW - 1.00 in. H ₂ O differential								
2IW - 2.00 in. H ₂ O differential								
2P5IW - 2.50 in. H ₂ O differential								
3IW - 3.00 in. H ₂ O differential								
5IW - 5.00 in. H ₂ O differential								
10IW - 10.00 in. H ₂ O differential								
15IW - 15.00 in. H ₂ O differential								
25IW - 25.00 in. H ₂ O differential							25IW	
Bi-directional ranges								
P1IWL - ±0.10 in. H ₂ O differential								
P25IWL - ±0.25 in. H ₂ O differential								
P5IWL - ±0.50 in. H ₂ O differential								
P75IWL - ±0.75 in. H ₂ O differential								_
1IWL - ±1.00 in. H ₂ O differential								-
2IWL - ±2.00 in. H ₂ O differential								_
5IWL - ±5.00 in. H ₂ O differential								
10IWL - ±10.00 in. H ₂ O differential								
15IWL - ±15.00 in. H ₂ O differential								
Option (if including an option(s) must include an "X")								-X
HK - Panel mount option (only provided when ordered with 'W' wa	all mount version.)							
NH - Stainless steel Tag								
RH - 9 pt. NIST traceable calibration report								RH

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DIMENSIONS are in inches

For reference only, consult Ashcroft for specific dimensional drawings.

