

Model GC52 Rangeable Wet/Wet Differential Pressure Transmitter



ACTUAL SIZE



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FEATURES:

- Up to 8 times smaller than a conventional process transmitter
- Robust NEMA 4X (IP65) aluminum die cast housing
- Bright backlit LCD display
- 2 Wire 4-20mA
- Internal "Push Button" configurability allows quick range changes
- Scaling function allows display to indicate arbitrary physical units
- Flow measurement and totalization (square root extraction)
- Easily rotatable display, 90° increments
- Key lock

APPLICATIONS:

The GC52 utilizes Ashcroft's proven Si-Glas™ silicon variable capacitance sensor technology in a wet-wet package ideal for applications where reliable, low differential pressure measurement is required with line (static) pressure to 300 psi. In addition the GC52 provides a linear flow output and (totalization) via square root extraction.

Applications include;

- Pressurized & non-pressurized tank levels
- Flow (liquid/gas) measurement

PERFORMANCE SPECIFICATIONS

Reference Condition: 23°C ±2° (73°F)

Accuracy: ±0.50% FS (URL)

(Accuracy includes the effects of linearity, hysteresis, and repeatability)

Stability: ±0.25% FS/year

Response Time: 100msec

Output Resolution: 0.1% FS (URL)

Display:

Type: 4 digit, 10mm LCD with LED backlight

Accuracy: ± 0.5% FS (URL) + last digit

Standard Ranges (Bi-Directional, Inches W.C.):

±4, ±8, ±20, ±40, ±80, ±200

Standard Ranges (Uni-Directional, Inches W.C.):

0-4, 8, 20, 40, 80, 200, 400

ENVIRONMENTAL SPECIFICATIONS

Temperature Limits:

Storage: -15 to 65°C (5 to 150°F)

Operating: -10 to 60°C (14 to 140°F)

Compensated: -10 to 60°C (14 to 140°F)

Temperature Effects (-10 to 60°C):

±0.03% FS/°C (from reference, 23°C (73°F))

FUNCTIONAL SPECIFICATIONS

Static (Line) Pressure:

Pressure Range	Proof	Burst
All	300 psi	800 psi

Static (Line) Pressure Effects:

Pressure Range	Effect
≥ 20" W.C., ±8" W.C.	±0.3% FS/100psi
8" W.C., ±4" W.C.	±0.7% FS/100psi
4" W.C.	±1.5% FS/100psi

Single Side (Differential) Limits:

Pressure Range	Proof	Burst
≤ 8" W.C., ±4" W.C.	30 psid	130 psid
≥ 20" W.C., ±8" W.C.	100 psid	130 psid

Vibration: 5g's 150Hz

Shock: 10g's 16ms

ELECTRICAL SPECIFICATIONS

Output Signal: 4-20mA (2 Wire)

Supply Voltage: 12-32Vdc

Rangeability / Adjustment*:

Zero -10% to +110% FS

Span -10% to +110% FS

*Note: Accuracy and output resolution based upon full scale (URL) value

Insulation Resistance: 50Vdc (>100Mohms)

CE Compliance: EN 613261 1997, A1/1998, A2/2001 (Heavy Industrial)

MECHANICAL SPECIFICATIONS

Pressure Connection:

- ½ Female NPT (Std.)

- 54mm conversion joint for 3-way manifold (Opt.)

Enclosure: Aluminum, epoxy coated

Rating: IP65 / NEMA 4X

Electrical Connection:

External Options:

- ½ Female NPT Conduit

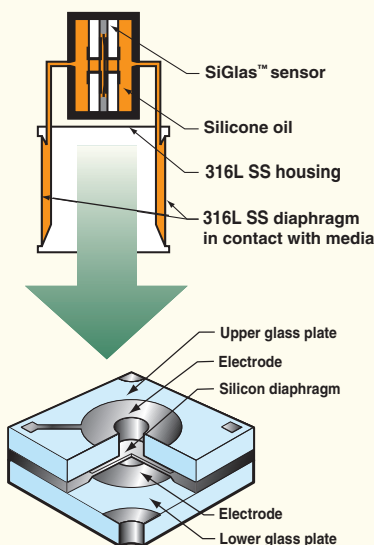
- Cable Gland (Cable Diameters 0.35" to 0.47")

Weight: Approx. 1.0 lb

Mounting: Mounting Bracket (see installation drawings on back)

Media: Fluids and gases compatible with 316SS, Viton and Alumina Ceramic

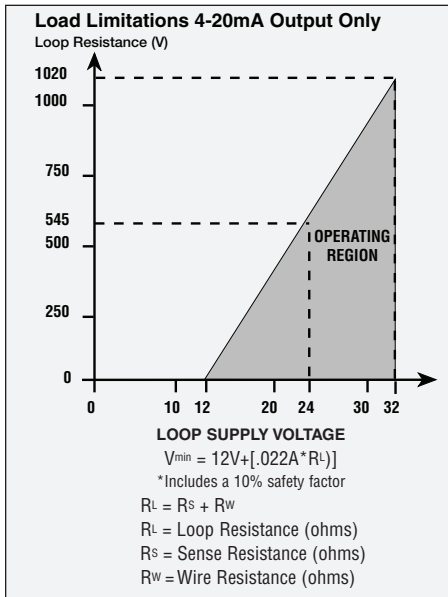
SENSOR ASSEMBLY CROSS SECTION



The silicon diaphragm sensor has no glues or other organics to contribute to drift or mechanical degradation over time while providing.

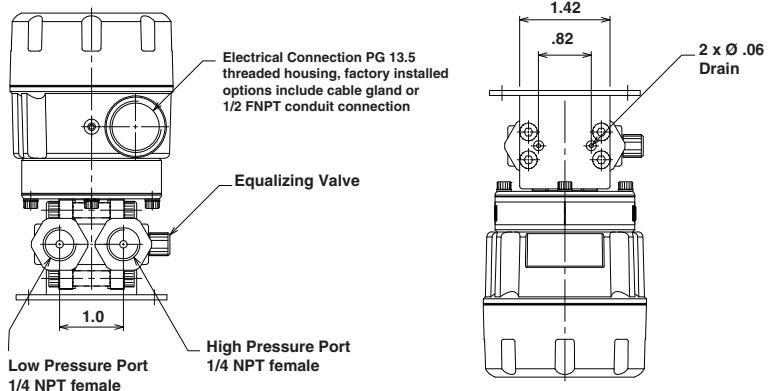
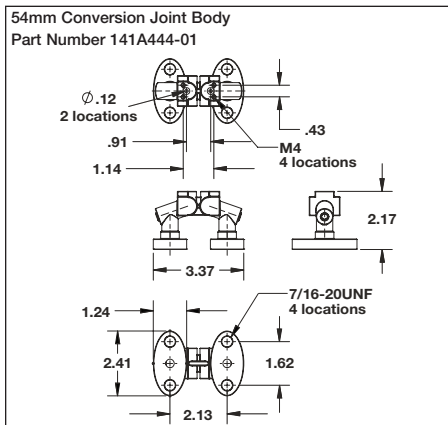
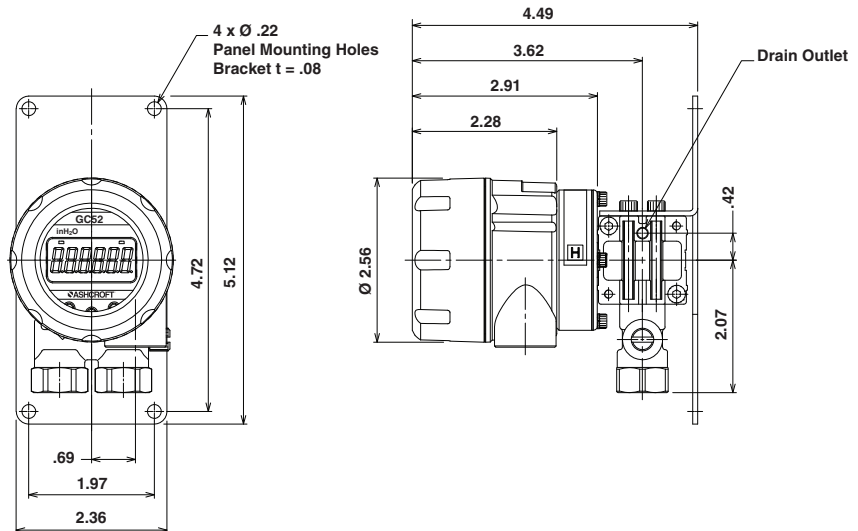
- High overpressure
- Inherent long term stability
- High sensitivity for low pressure sensing

Model GC52 Rangeable Pressure Transmitter



Dimension Drawings

Dimensions in inches



How To Order

GC52	7						X
Type Configuration (GC52)	Accuracy (7) ±0.50% FS	Pressure Fitting (F02) 1/4 FNPT	Output Signal (42) = 4-20mA	Electrical Connection (CG) = Cable Gland (CD) = 1/2" FNPT Conduit	Pressure Range (Compound/Bidirectional)		Optional X-Variations XRH
					4IWL = ±4" W.C. 8IWL = ±8" W.C. 20IWL = ±20" W.C. 40IWL = ±40" W.C. 80IWL = ±80" W.C. 200IWL = ±200" W.C.	9 pt. NIST traceable calibration certificate	
					Pressure Range (Differential/Gauge) 4IW = 0-4" W.C. 8IW = 0-8" W.C. 20IW = 0-20" W.C. 40IW = 0-40" W.C. 80IW = 0-80" W.C. 200IW = 0-200" W.C. 400IW = 0-400" W.C.		

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