

Model GC52 Rangeable Wet/Wet Differential Pressure Transmitter



ACTUAL SIZE

ISO 9001

REGISTERED FIRM

BULLETIN GC-52

FEATURES:

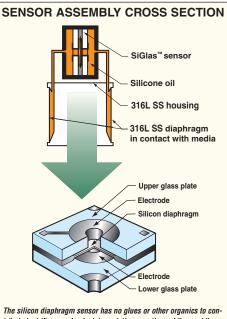
- Up to 8 times smaller than a conventional process transmitter
- Robust NEMA 4X (IP65) aluminum die cast housing
- Bright backlit LCD display
- 2 Wire 4-20mA
- Internal "Push Button" configurability allows quick range changes
- Scaling function allows display to indicate arbitrary physical units
- Flow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

APPLICATIONS:

The GC52 utilizes Ashcrofts' 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



tribute to drift or mechanical degradation over time while providing. • High overpressure

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

All specifications are subject to change without notice. All sales subject to standard terms and conditions. © Ashcroft Inc. 2013 07/14

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 | |

| Pressure Range | Effect | | |
|---------------------|----------------|--|--|
| ≥ 20″W.C., ±8″ W.C. | ±0.3% FS/100ps | | |
| 8″W.C., ±4″ W.C. | ±0.7% FS/100ps | | |
| 4″W.C. | ±1.5% FS/100ps | | |

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: 10a's 16ms

ELECTRICAL SPECIFICATIONS

- Output Signal: 4-20mA (2 Wire)
- Supply Voltage: 12-32Vdc
- Rangeablility / 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: EMC Directive 2004/108/EC
- IEC/EN 61326-1: 2006 (EMI Class A/ EMS Table 2) • IEC/EN 61326-2-3: 2006 (Annex BB (Pressure
- Transducer))

MECHANICAL SPECIFICATIONS Pressure Connection:

- ¼ Female NPT (Std.)
- 54mm conversoin 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

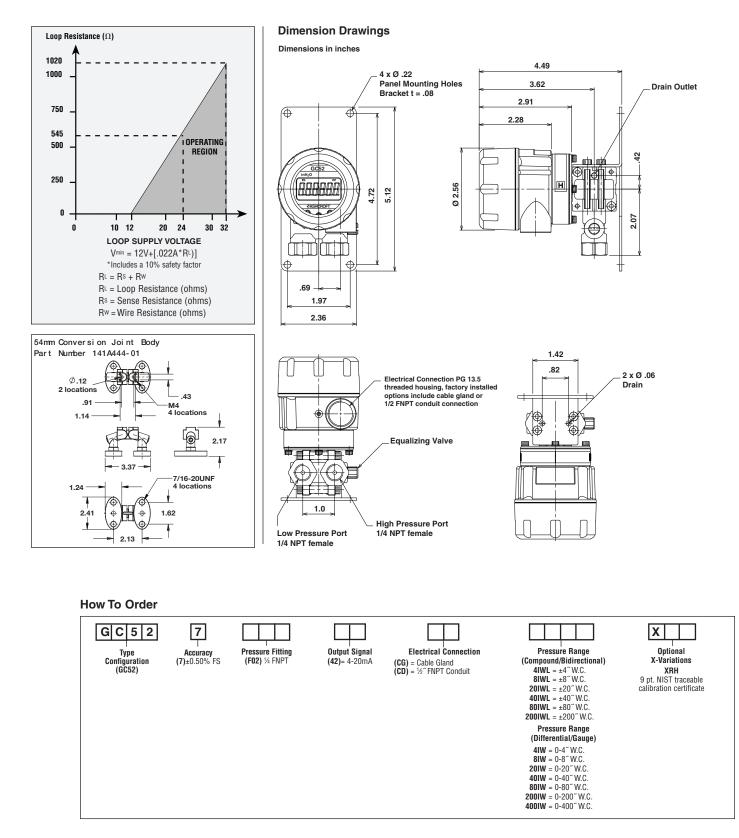
Mounting: Mounting Bracket (see installation drawings on back)

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

Ashcroft Inc 250 Fast Main Street Stratford CT 06614 USA Tel: 203-378-8281 • Fax: 203-385-0408 email: info@ashcroft.com • www.ashcroft .com



Model GC52 Rangeable Pressure Transmitter



ISO 9001 REGISTERED FIRM BULLETIN GC-52

All specifications are subject to change without notice. All sales subject to standard terms and conditions. $\hfill \mbox{$\bigcirc$}$ Ashcroft Inc. 2013 07/14

Ashcroft Inc., 250 East Main Street, Stratford, CT 06614 USA Tel: 203-378-8281 • Fax: 203-385-0408 email: info@ashcroft.com • www.ashcroft .com