

### Model GC52 Rangeable Wet/Wet Differential Pressure Transmitter



### 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

## SENSOR ASSEMBLY CROSS SECTION SiGlas™sensor Silicone oil 316L SS housing 316L SS diaphragm in contact with media Upper glass plate Flectrode Silicon diaphragm Electrode I ower glass plate 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

### 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 Ránge Proof **Burst** 300 psi 800 nsi

Static (Line) Pressure Effects:

<u>Effe</u>ct Pressure Ránge ≥ 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 ≤ 8" W.C., ±4" W.C. **Proof** 30 psid 130 psid 130 psid ≥ 20" W.C., ±8" W.C. 100 psid

Vibration: 5g's 150Hz Shock: 10g'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

All specifications are subject to change without notice. All sales subject to standard terms and conditions. @ Ashcroft Inc. 2015 09/15

· High sensitivity for low pressure sensing

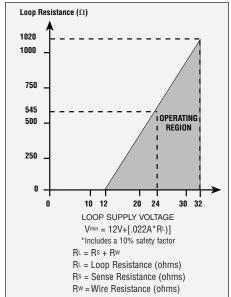
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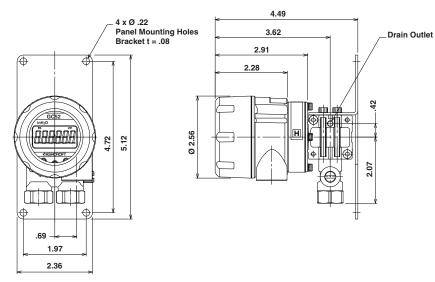
# **Model GC52 Rangeable Pressure Transmitter**

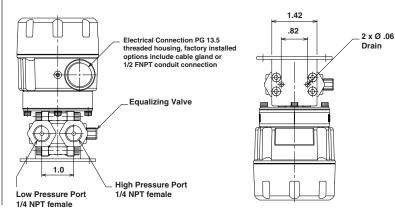


# \*Includes a 10% safety factor RL = RS + RW RL = Loop Resistance (ohms) RS = Sense Resistance (ohms) RW = Wire Resistance (ohms) 54mm Conversi on Joi nt Body Part Number 141A444-01 0.12 2 locations .91 .1.4 4 locations 1.24 4 locations

### **Dimension Drawings**

Dimensions in inches





### How To Order

2.13

