



# Model GC52 Rangeable Wet/Wet Differential Pressure Transmitter



#### **FEATURES:**

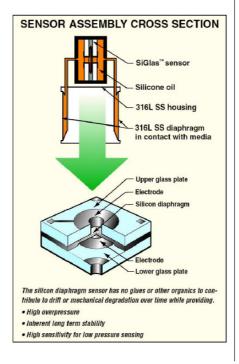
- Up to 8 times smaller than a conventional process transmitter
- Robust NEMA 4X (IP65) aluminum die cast housing
- Bright backlit LCD display
- All stainless steel wetted parts
- 2 wire 4-20 mA
- Internal "Push Button" configurability allows quick range changes
- Scaling function allows display to indicate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

#### 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.

#### Applications include:

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



## PERFORMANCE SPECIFICATIONS

Reference condition: 23 °C +2 °C

Accuracy: ±0.5 % FS (URL)

(Accuracy includes the effects of linearity,

hysteresis and repeatability) Stability: ≤ ±0,25 % F.S. / year

Response Time: ≤ 100 ms

Output Resolution: 0.1 % F.S. (URL)

Standard-Ranges (Bidirectional):

±4, ±8, ±20, ±40, ±80, ±200 in. H<sub>2</sub>O

Standard-Ranges (Unidirectional):

0 ... 4, 8, 20, 40, 80, 200, 400 in. H<sub>2</sub>O

#### **ENVIRONMENTAL SPECIFICATIONS** Temperature Limits:

Operating: -10 ... 60 ℃ Storage: -15 ... 65 ℃ Compensated: -10 ... 60 ℃

Temperature Effects:

±0,03 % / 1 K within -10 ... 60 ℃ (Ref. 23 ℃)

#### **FUNCTIONAL SPECIFICATIONS**

Static (line) Pressure:

Pressure Range Proof Burst 20 bar 55 bar

## Static (line) Pressure Effects:

Pressure Range **Effect** ≥ 20, ≥ ±8 in. H<sub>2</sub>O ≤ ±0,3% F:S. / 7 bar ≤ ±0,7% F.S. / 7 bar 8, ±4 in. H2O 4 in. H<sub>2</sub>O ≤ ±1,5% F.S. / 7 bar

### Single side (differential) limits:

Pressure range Proof
≥ 20, ≥ ±8 inch H2O 7 bar Proof Burst 9 bar ≤ 8. ±4 inch H2O 2 bar 9 har

Vibration: 5 g at 150 Hz Shock: 10 g at 60 Hz

#### **ELECTRICAL SPECIFICATIONS**

Output Signal: 4 ... 20 mA, 2 wire Supply Voltage: 12 ... 32 VDC

## Rangeability/Adjustment\*:

-10 % ... 110 % F.S. -10 % ... 110 % F.S. Žero Span Note: Accuracy and output resolution based upon full scale (URL) value

Isolation Resistance: > 100 MΩ at 50 VDC

CE-Compliance:

EN 613261 1997, A1/1998, A2/2001

#### MECHANICAL SPECIFICATIONS

Process Connection: 1/4 NPT female

Enclosure:

Aluminum, epoxy coated

Rating According to IEC 529: IP65/NEMA 4

## Electrical Connection (External Options):

- PG13.5 female thread
- 1/2 NPT female conduit
- Cable gland PG9

Weight: 0,67 kg

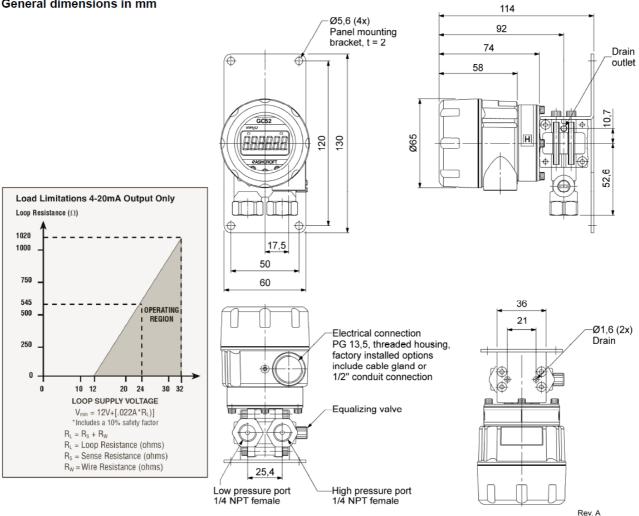
Mounting: Mounting bracket (see installation drawings on back)

Media: Fluids and gases compatible with stainless steel 316 (1.4404), Viton and Alumina ceramic





## General dimensions in mm



## Order information

| Туре | Accuracy  | Process connection   | Output signal | Electrical connection   | Range   | Eng.<br>unit                | Options   |
|------|-----------|----------------------|---------------|---|---|-----------------------------|---|
| GC52 | (7) 0,5 % | (F02) 1/4 NPT female | (42) 4/20 mA  | (CG) PG13.5 female thread (CD) ½ MNPT conduit (PG9) Cable gland PG9 | Bidirectional: 4 ±4 8 ±8 20 ±20 40 ±40 80 ±80 200 ±200        | IWL<br>in. H <sub>2</sub> O | (NH) Tagging wired  (RH) 9 point NIST traceable calibration certificate |
|      |           |                      |               |   | Unidirectional: 4 4 4 8 8 8 20 20 40 40 80 80 200 200 400 400 | in. H <sub>2</sub> O        |   |

## Order example

| Type | Accuracy | Process<br>connection | Output signal | connection | Range | Engineering<br>unit | Options |
|------|----------|-----------------------|---------------|------------|-------|---------------------|---------|
| GC52 | 7        | F02                   | 42            | CG         | 20    | IW                  | NH      |