

# 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
- 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 levels
- 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 °C  
Storage: -15 ... 65 °C  
Compensated: -10 ... 60 °C

**Temperature Effects:**  
±0,03 % / 1 K within -10 ... 60 °C (Ref. 23 °C)

## FUNCTIONAL SPECIFICATIONS

**Static (line) Pressure:**

Pressure Range	Proof	Burst
All	20 bar	70 bar

**Static (line) Pressure Effects:**

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

**Single side (differential) limits:**

Pressure range	Proof	Burst
≥ 20, ≥ ±8 inch H <sub>2</sub> O	7 bar	9 bar
≤ 8, ±4 inch H <sub>2</sub> O	2 bar	9 bar

**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\*:**

Zero	-10 % ... 110 % F.S.
Span	-10 % ... 110 % F.S.

\* 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:** ¼ NPT female

**Enclosure:**

Aluminum, epoxy coated

**Rating According to IEC 529:** IP65/NEMA 4

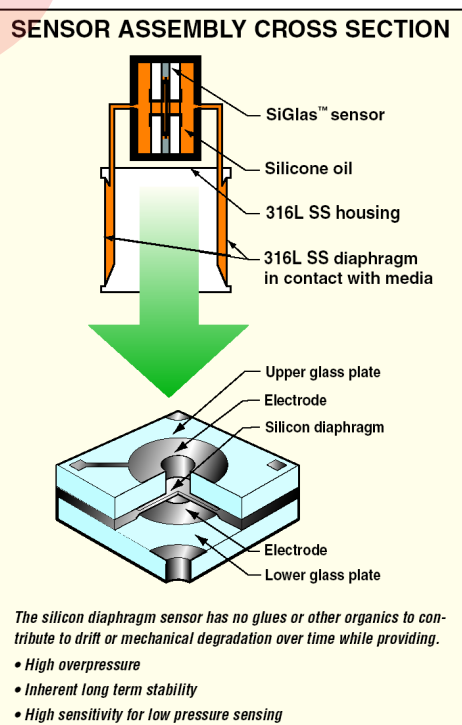
**Electrical Connection (External Options):**

- ½ NPT female conduit
- Cable gland Ø 9 ... 12 mm

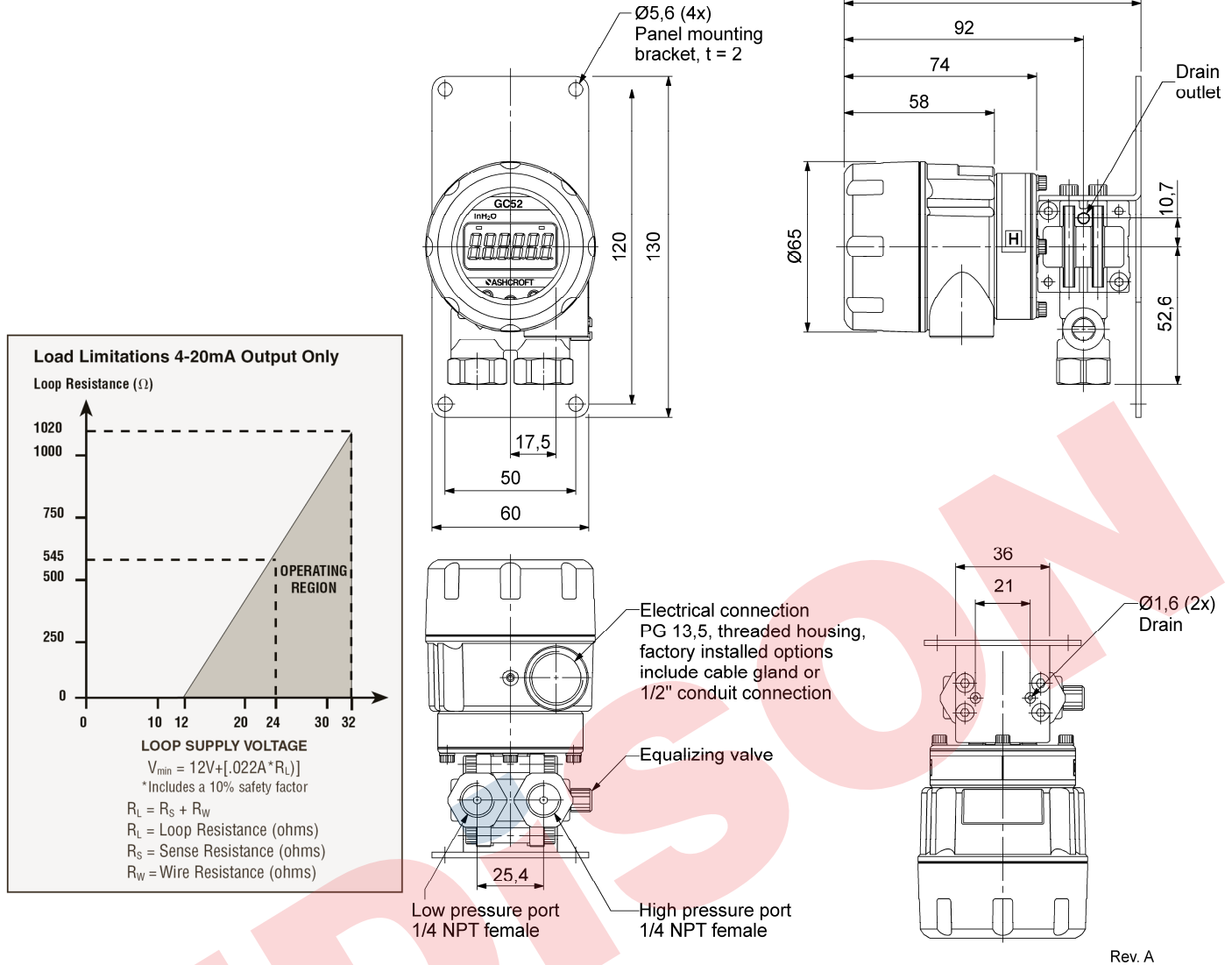
**Weight:** 0,67 kg

**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



Rev. A

## Order information

Type	Accuracy	Process connection	Output signal	Electrical connection	Range	Eng. unit	Options
GC52	(7) 0,5 %	(F02) 1/4 NPT female	(42) 4/20 mA	(CG) Cable gland (CD) 1/2" MNPT conduit	<b>Bidirectional:</b> 4 ±4 8 ±8 20 ±20 40 ±40 80 ±80 200 ±200  <b>Unidirectional:</b> 4 4 8 8 20 20 40 40 80 80 200 200 400 400	IWL in. H <sub>2</sub> O  IW in. H <sub>2</sub> O  mbar and others to be set by firmware	(NH) Tagging wired  (RH) 9 point NIST traceable calibration certificate

## Order example

Type	Accuracy	Process connection	Output signal	Electrical connection	Range	Engineering unit	Options
GC52	7	F02	42	CG	20	IW	NH

## Ashcroft Instruments GmbH

Germany  
Max-Planck-Str. 1, D-52499 Baesweiler  
P.O. Box 11 20, D-52490 Baesweiler  
Tel.: +49 (0) 2401 808-0, Fax: +49 (0) 2401 808-125

France  
„206“ ZA Le Mandinet, 1/3 Rue des Campanules  
F-77185 Lognes  
Tel.: +33 (0) 1 60 37 25 30, Fax: +33 (0) 1 60 37 25 39

Website: [www.ashcroft.eu](http://www.ashcroft.eu)

United Kingdom  
Unit 5 William James House  
Cowley Road, Cambridge CB4 0WX  
Tel.: +44 (0) 12 23 39 55 00, Fax: +44 (0) 12 23 39 55 01

e-Mail: [sales@ashcroft.com](mailto:sales@ashcroft.com)