Data Sheet



GC52 Differential Pressure Transducer

FEATURES

- Bright backlit 4-digit LCD display
- Scaling function allows display to indicate user defined physical units
- Internal "push-button" configurability allows quick range changes
- "Loop Check" function allows unit to output 4-20 mA without applying pressure
- Linear flow output and totalization via square root extraction

TYPICAL USES

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



GC52Pressure Transducer





PERFORMANCE SPECIFICATIONS

Reference Temperature: 73°F (23°C)

Accuracy: $\pm 0.50\%$ of span (URL)

Includes the effects of linearity, hysteresis, and

repeatability

Stability: $\pm 0.25\%$ of span (URL)/year

Output Resolution: 0.1% of span (URL)

Model: 4 digit, 10mm LCD with LED backlight

ENVIRONMENTAL SPECIFICATIONS

Temperature Effects: (-10°C to 60°C) ±0.03% FS/C°

Temperature Limits: Storage: 5°F to 150°F (-15°C to 65°C)
Operating: 14°F to 140°F (-10°C to 60°C)

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

FUNCTIONAL SPECIFICATIONS

Static (Line) Pressure

Pressure Range: Proof: Burst: 4 IWC to ≤400 IWC 300 psi 800 psi

Single Side (Differential)

 Pressure Range:
 Proof:
 Burst:

 ≤8 IWC, ±4 IWC
 30 psid
 130 psid

 ≥20 IWC, ±8 IWC
 100 psid
 130 psid

Static (Line) Pressure Effects

Pressure Range: Effect:

 $\begin{array}{lll} \geq & 20 \ \text{IWC}, \pm 8 \ \text{IWC} \\ 8 \ \text{IWC}, \pm 4 \ \text{IWC} \\ 4 \ \text{IWC} \\ \end{array} \begin{array}{lll} \pm & 0.3\% \ \text{Range/100 psi (URL)} \\ \pm & 0.7\% \ \text{Range/100 psi (URL)} \\ \pm & 1.5\% \ \text{Range/100 psi (URL)} \\ \end{array}$

Response Time: 100ms (user adjustable)

Vibration: 5g's 150Hz Shock Effect: 10g's 16ms

KEY BENEFITS

- Up to 8X smaller than a conventional process transmitter
- Compact robust design
- Easily rotatable display, 90° increments
- Robust NEMA 4X (IP66) aluminum die cast housing

ELECTRICAL SPECIFICATIONS

Output Signal: 4-20 mA (2 Wire)

Supply Voltage: 12-32 Vdc

Rangeablility/ Zero -10% to 110% Span Adjustment: Span -10% to 110% Span (Accuracy and output resolution based upon full scale (URL) value)

Insulation Resistance: $50 \text{ Vdc } (>100 \text{ M}\Omega)$ EMC Compliance: EMC Directive 2004/108/EC

EMIC Compliance: EMIC 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))

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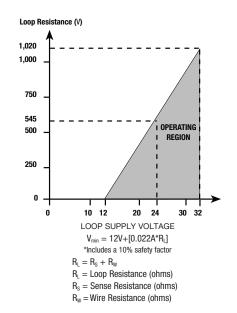


GC52 Differential Pressure Transducer

PHYSICAL SPECIFICATIONS						
Weight:	Approx. 1.0 lb.					
Environmental Rating:	IP66/NEMA 4X					
Mounting:	Mounting bracket included					
Pressure Connection:	1/4 NPT Female					
Electrical Connection (External):	½ NPT Female Conduit Cable Gland (Cable diameters 0.35" to 0.47")					

WETTED MATERIAL										
Diaphragm	Process Connection	Media Compatibility								
316 SS, Viton® & Alumina Ceramic	316 SS	Fluids and gases compatible with 316 SS, Viton® and Alumina Ceramic								
NON-WETTED										
Enclosure										
Aluminum, epoxy coated										

OPTIONAL FEATURES Calibration Report: 9 point NIST traceable calibration report Pressure Connection: 54mm conversion joint for 3-way manifold LOAD LIMITATIONS 4-20 mA OUTPUT ONLY

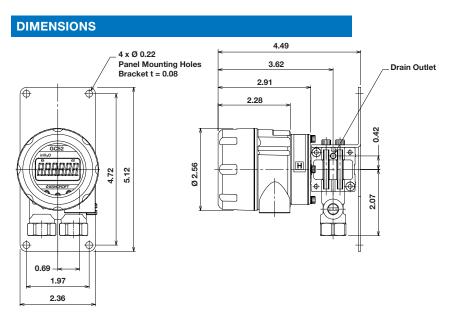


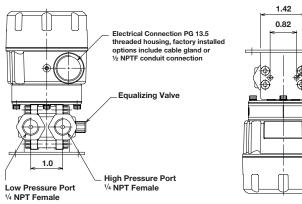
ORDERING CODE	Example:	GC52	7	F02	42	CG	4IWL	- XRH
Model								
GC52 - Rangeable wet/wet differential pressure transmitter		GC52						
Accuracy				_				
7 - ±0.50% of span			7					
Pressure Fitting								
F02 - ¼ NPT Female				F02				
Output Signal 42 - 4-20 mA Output signal					42	-		
Electrical Connection					44	_		
CG - Cable gland						CG		
CD - ½ NPT Female conduit								
Pressure Range							-	
Bidirectional								
4IWL - ±4 IWC							4IWL	_
8IWL - ±8 IWC								-
20IWL - ±20 IWC								-
40IWL - ±40 IWC								_
80IWL - ±80 IWC								-
200IWL - ±200 IWC								-
Differential								_
4IW - 0-4 IWD								
8IW - 0-8 IWD								
20IW - 0-20 IWD								
40IW - 0-40 IWD								
80IW - 0-80 IWD								_
200IW - 0-200 IWD								
400IW - 0-400 IWD								
Option (if including an option(s) must include an "X")								X
RH - 9 pt. NIST traceable calibration certificate	RH - 9 pt. NIST traceable calibration certificate							RH

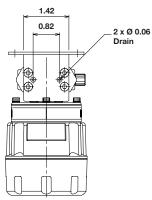
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54mm Conversion Joint Body Part Number 141A444-01

