Data Sheet

GC52 Differential Pressure Transmitter

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

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, 10 mm LCD with LED backlight				
ENVIRONMENTAL SPECIFICATIONS					

ENVIRONMENTAL SPECIFICATIONS

Temperature Effects: $(-10 \degree C \text{ to } 60 \degree C) \pm 0.03\% \text{ FS/C}^{\circ}$

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 \leq 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: ≥20 IWC, ±8 IWC 8 IWC, ±4 IWC 4 IWC	Effect: ±0.3% Range/100 psi (URL) ±0.7% Range/100 psi (URL) ±1.5% Range/100 psi (URL)
Response Time:	100 ms (user adjustable)
Vibration:	5 g's 150 Hz
Shock Effect:	10 g's 16 ms



GC52 Pressure Transmitter



KEY BENEFITS

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

ELECTRICAL SPECIFICATIONS				
Output Signal:	4-20 mA (2 Wire)			
Supply Voltage:	12-32 Vdc			
Rangeablility/ Adjustment:	Zero –10% to 110% Span Span –10% to 110% Span (Accuracy and output resolution based upon full scale (URL) value)			
Insulation Resistance:	50 Vdc (>100 MΩ)			
EMC 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))			

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Data Sheet



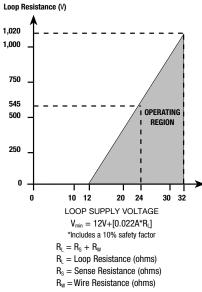


PHYSICAL SPECIFICATIONS		OPTIONAL FEATURES				
Weight:	Approx. 1.0 lb.		Calibration Report:	9 point traceable calibration		
Environmental Rating:	IP66/NEMA 4		Pressure Connection:	54 mm conversion joint fo		
Mounting:	Mounting bracke	t included		ONS 4-20 mA OUTPU		
Pressure Connection:	1/4 NPT Female		Loop Resis	tance (V)		
Electrical Connection (External):	/ - · · · · · · · · · · · ·	½ NPT Female Conduit Cable Gland (Cable diameters 0.35" to 0.47")				
WETTED MAT	ERIAL		750 _	/		
Diaphragm	Process Connection	Media Compatibility				
316 SS, Viton™ & Alumina Ceramic	316 SS	Fluids and gases compatible with 316 SS, Viton [™] and Alumina Ceramic	545 500	I OPER		
NON-WETTER	C		250 _	/ !		
	Enclos	ure				
	Aluminum, ep	oxy coated	0 🗕			
			0	10 12 20 24		

tion certificate

for 3-way manifold

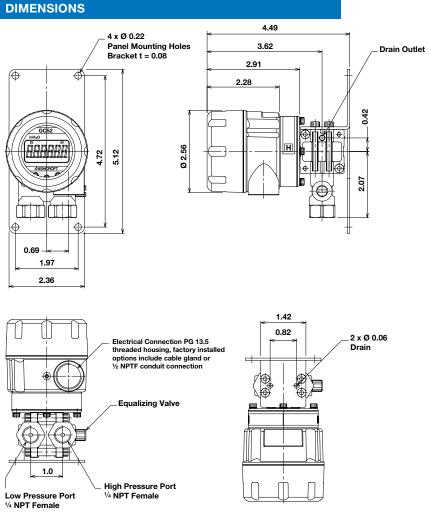
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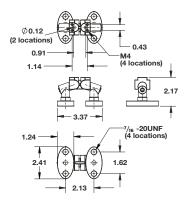
ORDERING CODE	Example:	GC52	7	F02	42	CG	4IWL	– XRH
Model								
GC52 - Rangeable wet/wet differential pressure transmitter		GC52						
Accuracy				-				
7 - ±0.50% of span			7	_				
Pressure Fitting F02 - ¼ NPT Female				F02				
Output Signal				FUZ				
42 - 4-20 mA Output signal					42	-		
Electrical Connection						-		
CG - Cable gland						CG		
CD - 1/2 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. Traceable calibration certificate								RH

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54mm Conversion Joint Body Part Number 141A444-01



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