

Model GC55 Wet/Wet Differential Pressure Transducer



Two sensor DP design means three measurement variables in one device. Output, display and switch settings can be set in nearly ANY independent configuration to monitor, high pressure port (P1), low pressure (P2), differential (P1-P2).

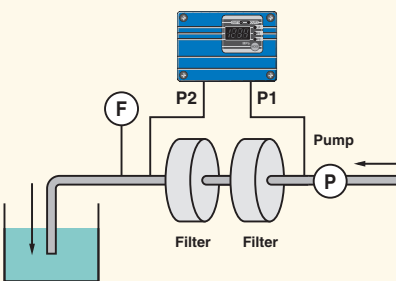
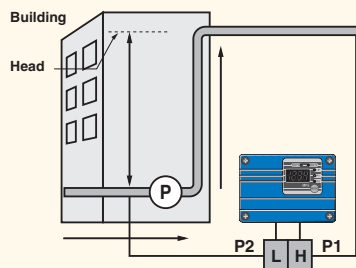
FEATURES

- Robust aluminum die cast housing
- Bright LED display of pressure and switch status
- All stainless steel wetted parts
- 4-20mA or 1-5Vdc outputs
- Internal "Push-Button" configurability allows quick user pressure range changes or relay adjustments
- External "Push-Button" allows user to display P1, P2 or DP without opening cover
- Two sensor design well suited for high DP ranges

APPLICATIONS

The GC55 utilizes two polysilicon thin film sensors to achieve a wet-wet, high differential, pressure measurement. Fully welded assembly of all stainless steel with high overpressure capability makes the GC55 ideal for fluid pump systems in applications such as:

- Level measurement in large size and/or pressurized tanks
- Pump monitoring of building hydronic heating and cooling systems
- Filter monitoring in water purification or hydraulic systems



PERFORMANCE SPECIFICATIONS

Analog Output (4-20mA or 1-5Vdc):

Accuracy: $\pm 0.5\%$ FS (Accuracy includes the effects of Linearity, Hysteresis and Repeatability)
 Response Time: 20msec
 Output Resolution: 0.2% FS

Pressure Switch Output:

Type: (2) photo MOS relays, rated to 40Vdc/200mA
 Setting Accuracy: $\pm 1.0\%$ FS
 Number of Contacts: 2
 Response Time: 20msec – 2.0 sec (by user)
 Hysteresis: Variable (by user)

Display:

Type: $3\frac{1}{2}$ digit, 10mm LED
 Accuracy: $\pm 1.0\%$ FS (URL) + last digit

Standard Ranges (Differential):

75psi	
100psi	250psi
150psi	300psi

ENVIRONMENTAL SPECIFICATIONS

Temperature Limits:

Storage: -20 to 60°C (-4 to 140°F)
 Operating: -10 to 50°C (14 to 122°F)
 Compensated: -10 to 50°C (14 to 122°F)
 Temperature Effects:
 Zero/Span: $\pm 0.05\%$ FS/ $^{\circ}\text{C}$ (from 23°C reference temperature)

FUNCTIONAL SPECIFICATIONS

Static (Line) Pressure:*

Pressure Range	Proof	Burst
All	2X FS (URL)	10X FS (URL)

Static (Line) Pressure Effects: None

Single Side (Differential) Limits:*

Pressure Range	Proof	Burst
All	2X FS (URL)	10X FS (URL)

*Note Maximum operating line pressure is the range (URL) of the unit ordered.

ELECTRICAL SPECIFICATIONS

Transducer Output Signal	Supply Voltage	Supply Current
4-20mA (3 wire)	15-27 Vdc	80mA
1-5Vdc (3 wire)	11-27 Vdc	60mA

Switch Contacts: (2) Photo MOS relay outputs; Load 200mA (max), 40Vdc; ; Hysteresis (variable)

Rangeability / Adjustment*:

Zero -105% to $+105\%$ FS
 Span -105% to $+105\%$ FS

*Note: Accuracy based upon full scale (URL) value

MECHANICAL SPECIFICATIONS

Pressure Connection: $\frac{1}{2}$ Female NPT (2)

Enclosure: Aluminum

Rating: IP66

Electrical Connection:

- $\frac{1}{2}$ Female NPT Conduit
- Cable Gland (cable diameters 0.16" to 0.31")

Weight: Approx. 1.0 lb

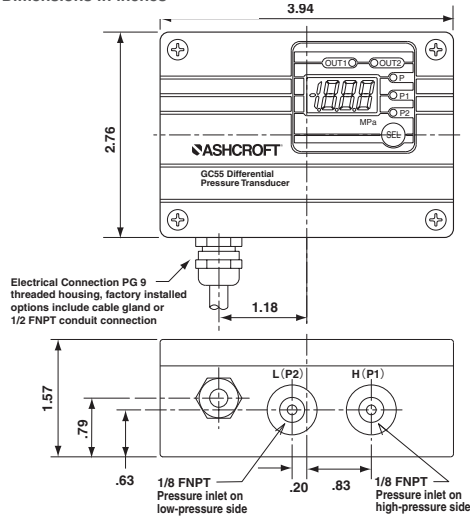
Mounting: (2) 5.2mm mounting holes (see installation drawings on back page)

Media: Fluids and gases compatible with 304SS (sensor housing) and 17-4 pH SS (sensor diaphragm)

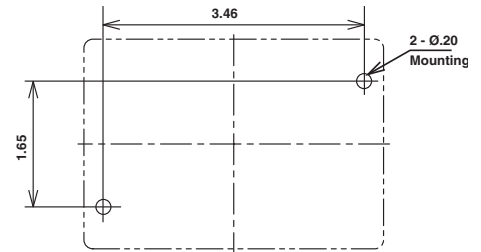
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Dimension Drawings

Dimensions in inches

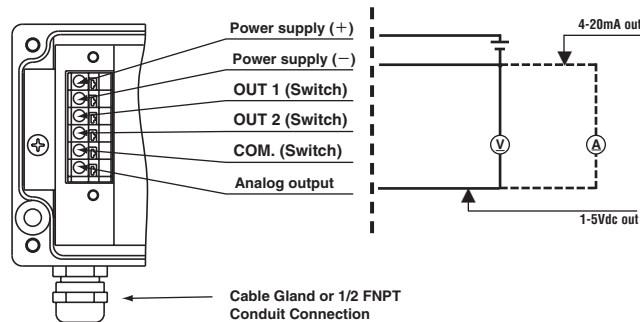


Mounting Dimensions



Note:
(2) Mounting holes through back of enclosure, accessible with cover removed.

Electrical Connections



How To Order

G	C	5	5	7						X		
Type Configuration (GC55)				Accuracy (7) $\pm 0.5\%$ FS	Pressure Connection (F01) $\frac{1}{8}$ " FNPT		Output Signal (15) = 1-5 Vdc (42) = 4-20mA		Electrical Connection (CG) = Cable Gland (CD) = $\frac{1}{2}$ " FNPT Conduit		Pressure Range Differential*	
											75# = 75 psi 100# = 100 psi 150# = 150 psi 250# = 250 psi 300# = 300 psi	
											Optional X-Variations XRH 9 pt. NIST traceable calibration certificate	

* Note: Maximum operating line pressure is the range (URL) of the unit ordered (as shown).