

GC55 Pressure Transducer

Features

- Bright LED display of pressure and switch status
- All stainless steel wetted parts
- 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

Typical Uses

- Tank level pressure measurement
- Pump controls
- Compressor control
- Filter monitoring
- HVAC Hydronic cooling/heating systems

Performance Specifications

Reference Temperature: 75 °F (24 °C)

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

Accuracy: ±0.5% of span
Includes linearity, hysteresis and repeatability

Response Time: 20 ms

Output Resolution: ±0.2% of span

Stability: ±0.5%/year

Pressure Switch Output:

Number of Contacts: 2

Response Time: 20 ms-2.0 sec (by user)

Type: TTL/CMOS up to 40 Vdc / 200 mA

Setting Accuracy: ±1.0% of span

Hysteresis: Variable deadband (by user)

Display:

Accuracy: ±1.0% of span

Type: 3½ digits, 10 mm LED

Environmental Specifications

Temperature Limits: Storage: -4 °F to 140 °F (-20 °C to 60 °C)
Operating: 14 °F to 122 °F (-10 °C to 50 °C)
Compensated: 14 °F to 122°F (-10 °C to 50 °C)

Thermal Coefficients:
(ref. 75°F (24°C)) Zero & Span: ±0.05% of span/°C

Functional Specifications

Static (Line) Pressure

Pressure Range:	Proof:	Burst:
75 to ≤300 psi	2 X Range (URL)	10 X Range (URL)

Single Side (Differential)

Pressure Range:	Proof:	Burst:
75 to ≤300 psi	2 X Range (URL)	10 X Range (URL)



GC55
Pressure Transducer



Key Benefits

- Robust aluminum die cast housing
- Two sensor design well suited for high DP ranges
- Min./Max. feature records, low/high pressure events
- Two polysilicon thin film sensors to achieve wet-wet, high differential pressure measurements
- Monitors/controls a wide variety of wet/dry media

Vibration: 5g's 150Hz

Shock Effect: 10g's 16 ms

Static (Line)
Pressure Effects: None

Electrical Specifications

Output Signal (Current): 4-20 mA (3 Wire): 15-27 Vdc 80 mA

Output Signal (Voltage): 1-5 Vdc (3 wire): 11-27 Vdc 60 mA

Rangeability/
Adjustment: Zero: -5% to 105% of span
Span: -5% to 105% of span
(Accuracy based upon F.S. (URL) value)

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

Contact Us

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ashcroft.com

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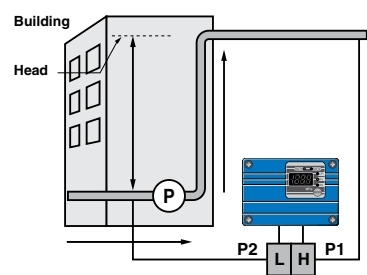
GC55 Pressure Transducer

Physical Specifications		
Weight:	Approx. 1.0 lb	
Environmental Rating:	IP66	
Mounting:	(2) 5.2 mm mounting holes	
Pressure Connection:	1/8 NPT Female	
Electrical Connection Size:	1/2 NPT Female Conduit Cable Gland (Cable diameters 0.16" to 0.63")	
Wetted Material		
Diaphragm	Process Connection	Media Compatibility
17-4PH SS	304 SS	Fluids and gases compatible with 304 SS (sensor housing) and 17-4PH® SS (sensor diaphragm)
Non-Wetted		
		Enclosure
		Aluminum
Optional Features		
Calibration Report:	Traceable 9 point calibration certificate	

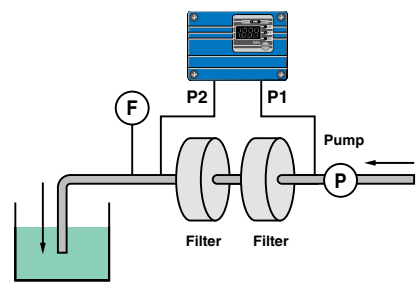
Two Polysilicon Thin Film Sensors

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



Ordering Code	Example:	GC55	7	F01	15	CG	75#	-XRH
Model		GC55						
GC55 - wet/wet indicating differential transducer w/ switch outputs		GC55						
Accuracy			7					
7 - ±0.5% of span			7					
Pressure Fitting				F01				
F01 - 1/8 NPT Female				F01				
Output Signal					15			
15 - 1-5 Vdc					15			
42 - 4-20 mA								
Electrical Connection						CG		
CG - Cable gland						CG		
CD - 1/2 NPT Female conduit								
Pressure Range Differential							75#	
75# - 75 psi							75#	
100# - 100 psi								
150# - 150 psi								
250# - 250 psi								
300# - 300 psi								
Option (if including an option(s) must include an "X")								X_
RH - Traceable 9 point calibration certificate								RH

