

Data Sheet

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

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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

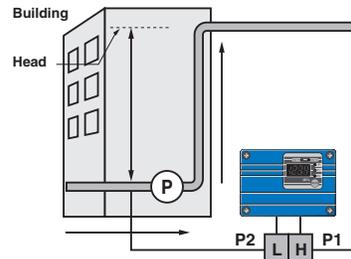
OPTIONAL FEATURES

Calibration Report: [Traceable calibration certificate](#)

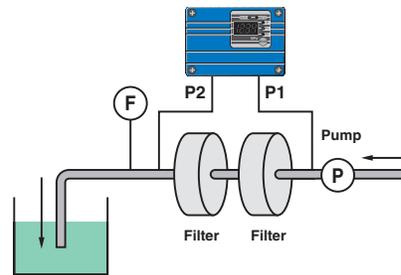
TWO POLYSILICON THIN FILM SENSORS

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

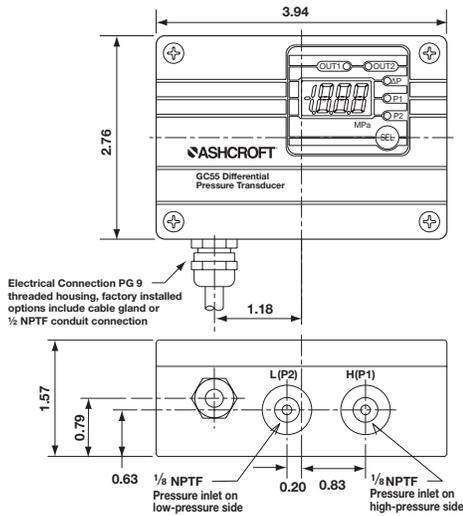
Model	GC55 - wet/wet indicating differential transducer w/ switch outputs	GC55						
Accuracy	7 - ±0.5% of span	7						
Pressure Fitting	F01 - 1/8 NPT Female		F01					
Output Signal	15 - 1-5 Vdc 42 - 4-20 mA			15				
Electrical Connection	CG - Cable gland CD - 1/2 NPT Female conduit				CG			
Pressure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

Data Sheet

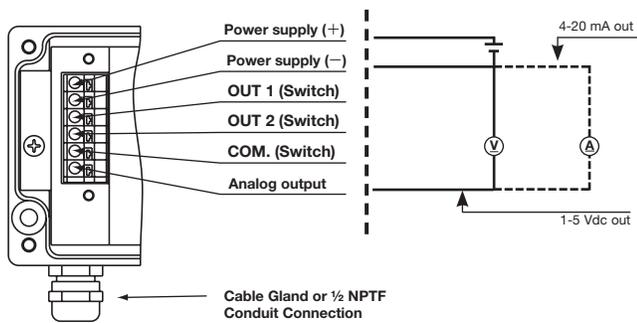
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DIMENSIONS in [] are millimeters

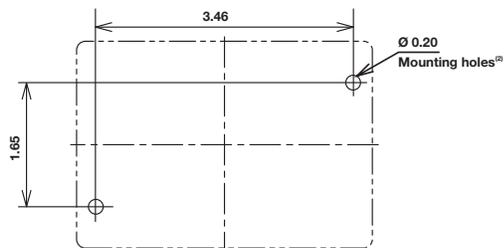
For reference only, consult Ashcroft for specific dimensional drawings



ELECTRICAL CONNECTIONS



MOUNTING DIMENSIONS



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