

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).

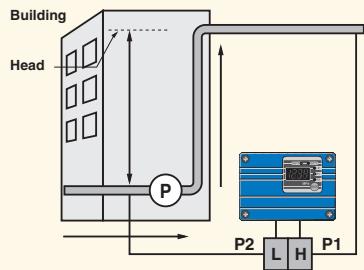
FEATURES

- 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

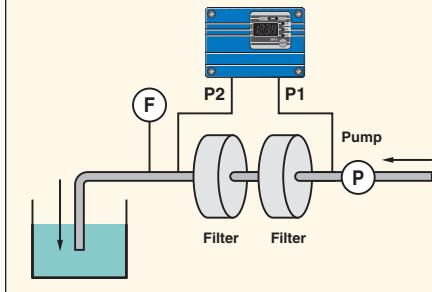
APPLICATIONS

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: TTL/CMOS up 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: 3½ digits
Accuracy: $\pm 1.0\%$ FS

Standard Ranges (Differential):

75psi	100psi	250psi
100psi	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/°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)

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:

½ Female NPT (2)

Enclosure:

Aluminum

Rating:

IP64

Electrical Connection:

- ½ 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

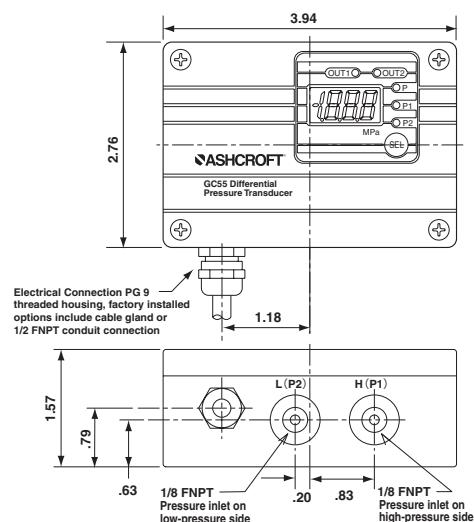
304SS (sensor housing) and 17-4 pH SS

(sensor diaphragm)

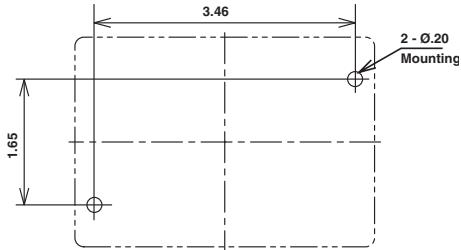
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Dimension Drawings

Dimensions in inches

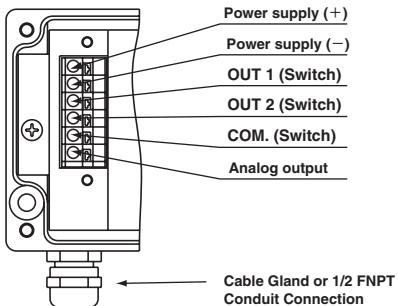


Mounting Dimensions



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

Electrical Connections



How To Order

G C 5 5	7	Pressure Connection	Output Signal	Electrical Connection	Pressure Range Differential	X
Type Configuration (GC55)	Accuracy (7) \pm 0.5% FS	F01 1/8" FNPT	(15)= 1-5 Vdc (42)= 4-20mA	(CG) = Cable Gland (CD) = 1/2" FNPT Conduit	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

ISO 9001
REGISTERED FIRM

BULLETIN GC55-1

All specifications are subject to change without notice.
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