

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
- 4-20 mA or 1-5 VDC 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 (4-20 mA or 1-5 VDC): Accuracy: ±0,5 % F.S. (Accuracy includes the effects of linearity, hysteresis and repeatability) Response time: ≤ 20 ms Output resolution: 0,2 % F.S.

Pressure Switch Output:

Type: TTL/CMOS up to 40 VDC/200 mA Setting accuracy: ±1,0 % F.S. Number of contacts: 2 Response time: 0,02 ... 2 s (by user) Hysteresis: variable (by user)

Display: Type: 3 ½ digits LCD Accuracy: ±1,0 % FS

Standard Ranges (Differential):

0 ... 75, 100, 150, 250, 300 psi (0 ... 5, 7, 10, 17, 20 bar)

ENVIRONMENTAL SPECIFICATIONS Temperature Limits:

Operating temperature: -10 ... 50 °C Storage temperature: -20 ... 60 °C Compensated temperature: -10 ... 50 °C

Temperature Effects:

±0,05 % / 1 K from -10 ... 50 °C (Ref. 23 °C)

FUNCTIONAL SPECIFICATIONS

Static (Line) Pressure:			
Pressure Range	Proof	Burst	
All	2x F.S. (URL)	10x F.S.	

Static (Line) Pressure Effects: None

Single Side (Differential) Limits:				
Pressure Range	Proof	Burst		
All	2x F.S. (URL)	10x F.S.		

LECTRICAL SPECIFICATIONS				
Transducer	Supply Supply			
Output Signal	Voltage	Current		
4 20 mÅ, 3 wire	15-27 VDC	80 mA		
1 5 VDC. 3 wire	11-27 VDC	60 mA		

Switch Contacts: 2 Photo-MOS relay outputs, load max. 200 mA / 40 VDC, Hysteresis variable

Rangeability/Adjustment*:

zero -105 % ... 105 % F.S. span -105 % ... 105 % F.S.

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

MECHANICAL SPECIFICATIONS

Process Connection: 1/8 NPT female (2)

Enclosure: Aluminum, Epoxy coated

Rating acc. to IEC 529: IP64

Electrical Connection: - 1/2 NPT female conduit

- cable gland Ø 9 ... 12 mm

Weight: 0,45 kg

- **Mounting:** (2) 5,2 mm mounting holes (see installation drawings on back page
- Media: Fluids and gases compatible with stainless steel 1.4404/304 (sensor housing) and 1.4542/17-4PH (sensor diaphragm).



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Order information

Туре	Accuracy	Process connection	Output signal	Electrical connection	Range	Eng. unit	Options
GC55	(7) 0,5 %	(F01) 1/8 NPT female	(15) 1-5 VDC (42) 4-20 mA	(CG) Cable gland (CD) ½" MNPT conduit	75 100 150 250 300	PSI bar and others to be set by firm- ware	 (NH) Tagging wired (RH) 9 point NIST traceable calibra- tion certificate

Order example



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