

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).

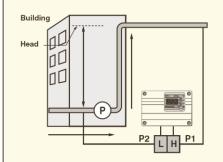
FEATURES:

- 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

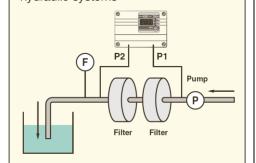
APPLICATIONS

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, hys-

teresis 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 1/2 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 2x F.S. (URL) 10x F.S.

Static (Line) Pressure Effects: None

Single Side (Differential) Limits:

Pressure Range Proof **Burst** 2x F.S. (URL) 10x F.S.

ELECTRICAL SPECIFICATIONS

Transducer Supply Supply **Output Signal** Current Voltage 4 ... 20 mA, 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 varia-

Rangeability/Adjustment*:

-105 % ... 105 % F.S. zero -105 % ... 105 % F.S. span * Note: Accuracy based upon full scale (URL)

MECHANICAL SPECIFICATIONS

Process Connection: 1/8 NPT female (2)

Enclosure:

Aluminum, Epoxy coated

Rating acc. to IEC 529: IP64

Electrical Connection:

- PG9 female thread
- 1/2 NPT female conduit
- Cable gland PG9

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).



19/10/2009

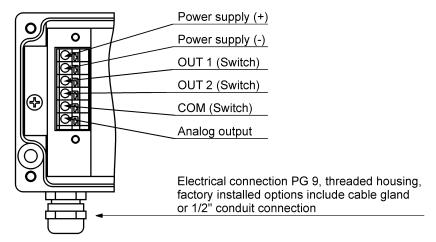


Mounting

General dimensions in mm

88 100 M5 (2x) \bigoplus 2 **NASHCROFT** GC55 Differential Pressure Transducer 4 Electrical connection PG9, threaded housing, Note: factory installed options 2 mounting holes through back of include cable gland or enclosure, accessible with cover 30 1/2" conduit connection H(P1) L(P2) 9 9 Low pressure port High pressure port 1/8 NPT female 1/8 NPT female

Electrical connection



Rev. A

Order information

Туре	pe Accuracy Process connection		Output signal	Electrical connection	Range	Eng. unit	Options	
GC55	(7) 0,5 %	(F01) 1/8 NPT female	(15) 1-5 VDC	(CG) PG9 female thread	75 100	PSI	(NH) Tagging wired	
			(42) 4-20 mA	(CD) ½ MNPT conduit	150 250		(RH) 9 point NIST traceable calibra-	
			(PG9)	(PG9) Cable gland PG9	300	bar and others to be set by firm- ware	tion certificate	

Order example

Туре	Accuracy	Process connection	Output signal	Electrical connection	Range	Engineering unit	Options
GC55	7	F01	42	CG	100	PSI	NH

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