ASHCRO

GC51 Pressure Transmitter

FEATURES

- Bright backlit 4-digit LCD display
- "Loop Check" function allows unit to output 4-20 mA without applying pressure
- Internal "push-button" configurability allows quick range changes
- "Min./Max. Hold" function allows display to capture pressure events
- Easily rotatable display, 90° increments

TYPICAL USES

- Pump control
- Hydraulic systems
- Compressor control
- Process automation
- Municipal water tank level

PERFORMANCE SPECIFICATIONS

Reference 73 °F (23 °C)

Temperature:

±0.25% of span (All ranges through 7500 psi) Accuracy:

±0.5% of span (9.00 and 15.00 ksi ranges) ±1.0% of span (20.00 ksi range)

(includes effects of linearity, hysteresis &

repeatability)

Stability: ±0.25% of span upper range limit (URL)/year

Output Resolution: 0.1% of span (URL)

ENVIRONMENTAL SPECIFICATIONS

14 °F to 140 °F (-10 °C to 60 °C) Temperature Effects:

±0.02% of span (URL)/°C

Temperature Limits: Storage: -4 °F to 158 °F (-20 °C to 70 °C)

Operating: 14 °F to 140 °F (-10 °C to 60 °C) Compensated: 14 °F to 140 °F (-10 °C to 60 °C)

FUNCTIONAL SPECIFICATIONS

Overpressure: Proof: Burst: ≤1,500 psi 5 X Range 2 X Range 3,000 & 5,000 psi 1.5 X Range 3 X Range 7,500 psi thru 20 ksi 1.2 X Range 3 X Range

Response Time: 30 ms (user adjustable)

Vibration: 5 g's 150 Hz Shock Effect: 10 g's 16 ms

Display: 4 digit, 10 mm LCD with LED backlight

Accuracy: ± 0.25% of span (URL) + last digit

ELECTRICAL SPECIFICATIONS

Output Signal: 4-20 mA (2 Wire)

Supply Voltage: 12-32 Vdc

Rangeablility/ Zero: -10% to +110% span Adjustment: Span: -10% to +110% span

(Accuracy and output resolution based upon

the span (URL) value)



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KEY BENEFITS

- Robust NEMA 4 (IP66) aluminum die cast housing
- Scaling function allows display to indicate user defined physical units
- Up to 8X smaller than a conventional process transmitter

ELECTRICAL SPECIFICATIONS (Continued)

Insulation 50 Vdc (>100 MΩ) Resistance:

EMC Directive 2004/108/EC **EMC Compliance:**

IEC/EN 61326-1: 2006 (EMI Class A/ EMS Table 2)

IEC/EN 61326-2-3: 2006 (Annex BB (Pressure Transducer))

PHYSICAL SPECIFICATIONS

Process All ranges through 9.00 ksi: 1/4 NPT Female Connection: Ranges15.00 ksi and 20.00 ksi: %16-18 UNF-2B for

1/4" O.D. High Pressure Tubing

Weight: Approx. 1.0 lb.

Environmental Rating:

Electrical 1/2 NPT Female Conduit

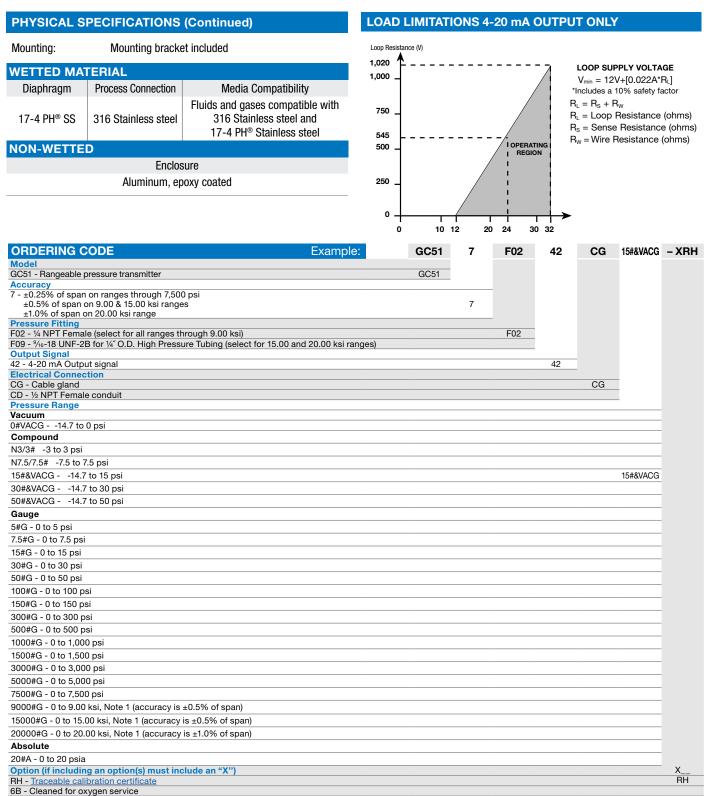
Connection: Cable Gland (Cable diameters 0.35" to 0.47")

IP66/NEMA 4

1 of 3



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Note 1 Due to 4 digit display and internal count/resolution limitation, multiply the displayed value x 1000 to determine the psi value.

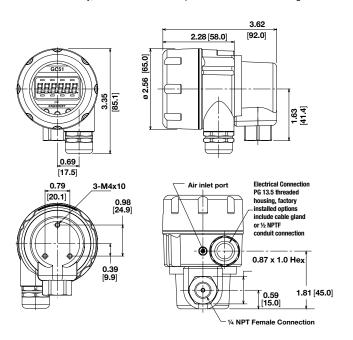
2 of 3



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DIMENSIONS are in inches and [millimeters]

For reference only, consult Ashcroft for specific dimensional drawings



Installation Drawings

