

Model GC51 Rangeable Pressure Transmitter

FEATURES:

- Up to 8 times smaller than a conventional process transmitter
- Robust NEMA 4X (IP65) aluminum die cast housing
- Bright backlit LCD display
- All stainless steel wetted parts
- 2 wire 4-20mA
- Internal "Push Button" configurability allows quick range changes
- Scaling function allows display to indicate arbitrary physical units
- "Loop Check" function allows unit to output 4-20mA without applying pressure
- "Min / Max Hold" function allows display to capture pressure events
- Easily rotatable display, 90° increments

APPLICATIONS:

The GC51 utilizes Ashcrofts' proven polysilicon thin film sensor which makes the design suitable for applications where high overpressure and high cycle life are necessary, typically required in;

- Pump Control
- Hydraulic Systems
- Compressor Control
- Process Automation
- Municipal Water Tank Level

PERFORMANCE SPECIFICATIONS

Reference Condition: $23^{\circ}C \pm 2^{\circ} (73^{\circ}F)$

- Accuracy: ±0.25% FS (URL) (Accuracy includes the effects of linearity,
- hysteresis, and repeatability)
- Stability: ±0.25% FS/year Response Time: 30msec
- Output Resolution: 0.1% FS (URL)

Display:

Type: 3½ digit, 10mm LCD with LED backlight Accuracy: ± 0.25% FS (URL) + last digit

Standard Ranges (Compound): -15 to 15psi, -15 to 30psi, -15 to 50psi

Standard Ranges (Gauge): 0-50psi, 100psi, 150psi, 300psi, 500psi, 1000psi, 1500psi, 3000psi, 5000psi, 7500psi

ENVIRONMENTAL SPECIFICATIONS

Temperature Limits

Storage: -20 to 70°C (-4 to 158°F) Operating: -10 to 60°C (14 to 140°F) Compensated: -10 to 60°C (14 to 140°F)

Temperature Effects (-10 to 60°C): ±0.02% FS (URL)/°C from 23°C reference

FUNCTIONAL SPECIFICATIONS

Overpressure (F.S.):	<u>Proof</u>	<u>Burst</u>
1500psi and below	200%	500%
3000, 5000psi	150%	300%
7500psi	120%	150%
Vibration: 5a's 150Hz		

Shock: 10g's 16ms

ELECTRICAL SPECIFICATIONS

Output Signal: 4-20mA (2 Wire)

Supply Voltage: 12-32Vdc

Rangeablility / Adjustment*:

Zero -10% to +110% FS

Span -10% to +110% FS *Note: Accuracy and output resolution based upon full scale (URL) value

Insulation Resistance: 50Vdc (>100Mohms) CE Compliance: EN 613261 1997, A1/1998, A2/2001 (Heavy Industrial)

MECHANICAL SPECIFICATIONS

Pressure Connection: ¼ Female NPT Enclosure: Aluminum, epoxy coated Rating: IP65 / NEMA 4X

Electrical Connection (Options):

– ½ Female NPT Conduit

- Cable Gland (Cable Diameters 0.35" to 0.47")

Weight: Approx. 1.0 lb

- **Mounting:** Mounting Bracket (see installation drawings on back)
- Media: Fluids and gases compatible with 316SS and pH17-4 stainless steel

BULLETIN GC-51

ACTUAL SIZE

CE

LOOK FOR THIS AGENCY MARK ON OUR PRODUCTS

GC51

ASHCROFT



Model GC51 Rangeable Pressure Transmitter



ISO 9001 REGISTERED FIRM

All specifications are subject to change without notice. All sales subject to standard terms and conditions. © Ashcroft Inc. 2007 5/08

Ashcroft Inc., 250 East Main Street, Stratford, CT 06614 USA Tel: 203-378-8281 • Fax: 203-385-0408 email: info@ashcroft.com • www.ashcroft .com