Model GC31 Ultra-Compact Digital Pressure Sensor

GC31 LOWER CONNECT

GC31 BACK CONNECT

ACTUAL SIZE

LOOK FOR THIS AGENCY MARK ON OUR PRODUCTS

APPLICATIONS:

- *Hydraulic presses, stamping equipment, lifts*
- *Tire press vulcanization, pressure monitoring*
- *Water, refrigerant or ammonia based cooling systems*
- *Pressure monitoring on lubrication systems*

FEATURES:

- *Ultra-compact design 1.2˝ x 1.2˝ (30mm x 30mm)*
- *Combined three-in-one digital pressure gauge, switch and transducer*
- *Simple "Push-Button" configurability allows user to adjust switch settings, analog scaling*
- *Numerous standard ranges available*

Featuring highly reliable CVD thin film pressure sensing technology.

PRODUCT SPECIFICATIONS

Analog Output (1-5Vdc):

Accuracy: ± 1.0% FS (accuracy includes the effects of linearity, hysteresis and repeatability)

Response time: 50msec

Output resolution: 25mV

Analog scaling: User may configure analog output scaling to any range within full scale of sensor range

Pressure Switch Output:

Type: NPN or PNP open collector up to 30Vdc/80ma

Setting accuacy: ± 1.0% F.S.

Number of contacts: 2

Time delay: 5 msec –2.0 sec (by user)

Hysteresis: variable (by user)

Switch setting: User may adjust switch actuation & deadband to any points within full scale sensor range

Display:

Type: 3½ digit, 10mm LED

Accuracy: ± 1.0% FS ± last digit

Display setting: User may re-configure display scaling, set to capture MIN or MAX value, and adjust display update rate

PSI Ranges:

Standard Ranges (Gauge):

0 to 50 psig, 100 psig, 150 psig, 300 psig, 500 psig, 1000 psig, 1500 psig

Standard Ranges (Compound):

–15 to 15 psig,–15 to 75 psig, –15 to 150 psig, –15 to 300 psig

ENVIRONMENTAL SPECIFICATIONS

Temperature Limits:

Storage: –22 to 140°F (–30 to 60°C)

Operating: –4 to 140°F (–20 to 50°C)

Compensated: 14 to 122°F (–10 to 50°C)

Temperature Effects:

Zero/Span: ±0.03% F.S./F (±0.05% F.S./C) from 73°F (23°C) reference temperature

Humidity: 0-85% RH (Non-Condensing)

FUNCTIONAL SPECIFICATIONS

Proof Pressure: 2X range: 500 psi & below
1.5X range: 1000 psi & above

Burst Pressure: 8X range

CE compliance: EN61326-1 2006, EN61326-2-3 2006

ELECTRICAL SPECIFICATIONS

Power Supply Requirements:

Supply voltage: 11-27Vdc

Current consumption: 30mA (max)

Switch Contacts:

(2) NPN or PNP open collector outputs
NPN Type: 30Vdc / 80mA (max)
PNP Type: voltage drop 1Vdc (max)/80mA (max)

MECHANICAL SPECIFICATIONS

Pressure Connection: ¼ NPT (Male)

Enclosure: ABS, polycarbonate, aluminum

Rating: IP40

Electrical Connection: 6ft cable pigtail

Weight: Approx. 110 grams

Mounting: Panel mounting bracket included (back connect only)

Media: Fluids and gases compatible with 304 SS (sensor housing) and 17-4 pH SS (sensor diapragm)

ISO 9001
REGISTERED FIRM

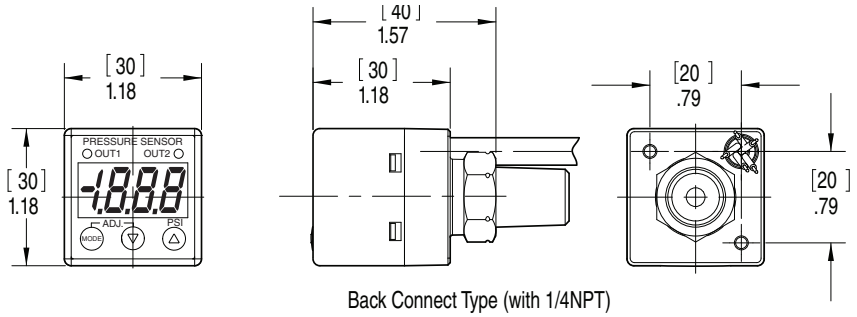
BULLETIN GC31-1

All specifications are subject to change without notice.
All sales subject to standard terms and conditions.
© Ashcroft Inc. 2009 09/09

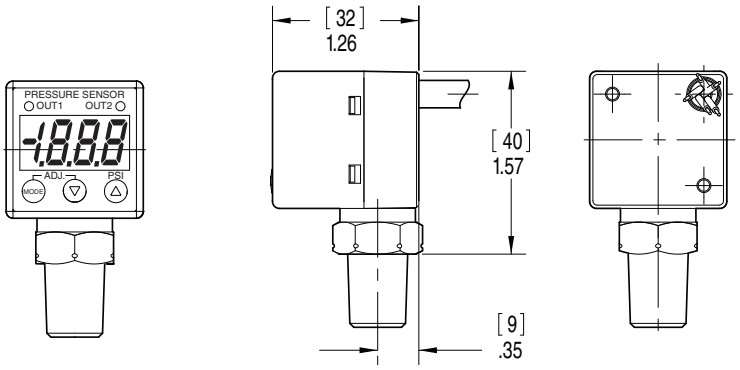
Ashcroft Inc., 250 East Main Street, Stratford, CT 06614 USA
Tel: 203-378-8281 • Fax: 203-385-0408
email: info@ashcroft.com • www.ashcroft.com

Model GC31 Ultra-Compact Digital Pressure Sensor

Dimensions (mm) Inches

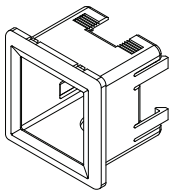


Back Connect Type (with 1/4NPT)

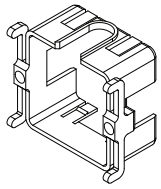


Lower Connect Type (with 1/4NPT)

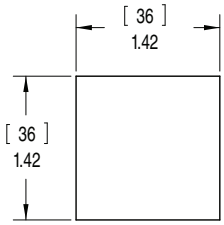
Panel Mounting Kit (for back connect types only)



Panel adapter 1 (X1)



Panel adapter 2 (X1)



Panel cutout dimension

Notes:

1. Back connect version (M02B/MG2B) to be supplied with panel mount adapter in box.

How to order

G C 3 1	7			F 4		X
Type (GC31)	**Accuracy** (7) ±1.0%	**Connection/Locatoin** (MO2L) ¼ NPT Male w/lower connect (MO2B) ¼ NPT Male w/back connect	**Output Signal** (1N) 1-5Vdc: Analog w/2X NPN Type switches (1P) 1-5Vdc: Analog w/2X PNP Type switches	**Electrical Connection** (F4) 6´ (2m) cable	**Pressure Range** Gauge: (50#G) - 0/50 psig (100#G) - 0/100 psig (150#G) - 0/150 psig (300#G) - 0/300 psig (500#G) - 0/500 psig (1000#G) - 0/1000 psig (1500#G) - 0/1500 psig Compound: (15#&V) - –15 to 15 psig (75#&V) - –15 to 75 psig (150#&V) - –15 to 150 psig (300#&V) - –15 to 300 psig	**Options** **XRH** Traceable 9 Point Calibration Report

ISO 9001
REGISTERED FIRM

BULLETIN GC31-1

All specifications are subject to change without notice.
All sales subject to standard terms and conditions.
© Ashcroft Inc. 2009 09/09

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