

Model GC31 Ultra-Compact Digital Pressure Sensor



GC31 LOWER CONNECT

GC31 BACK CONNECT

ACTUAL SIZE

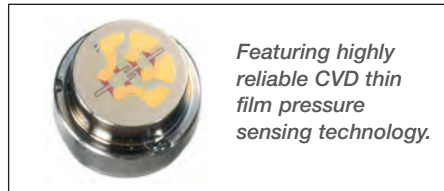


APPLICATIONS:

- 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: $\pm 1.0\%$ 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 accuracy: $\pm 1.0\%$ 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: $\pm 1.0\%$ FS \pm 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: $\pm 0.03\%$ F.S./F ($\pm 0.05\%$ 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

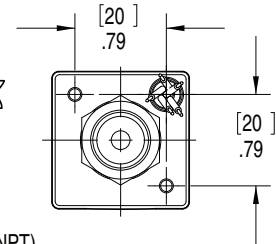
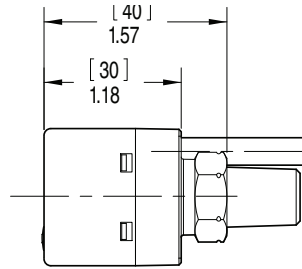
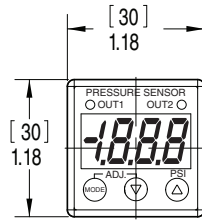
Weight: Approx. 110 grams

Mounting: Panel mounting bracket included (back connect only)

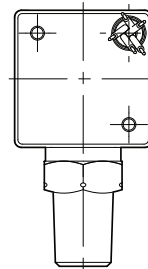
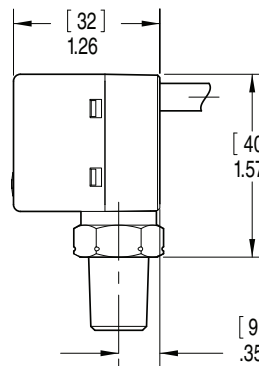
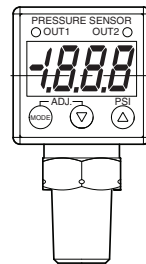
Media: Fluids and gases compatible with 304 SS (sensor housing) and 17-4 pH SS (sensor diaphragm)

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Dimensions (mm) Inches

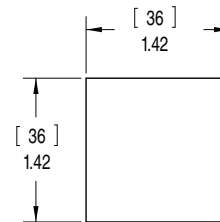
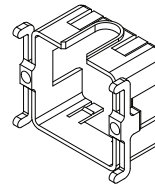
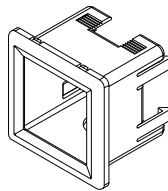


Back Connect Type (with 1/4NPT)



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 Type (GC31)	7 Accuracy (7) ±1.0%	[] [] [] [] Connection/Location (M02L) ¼ NPT Male w/lower connect (M02B) 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	F 4 Electrical Connection (F4) 6' (2m) cable	[] [] [] [] [] [] Pressure Range Gauge: Compound: (50#G) - 0/50 psig (15#&V) - -15 to 15 psig (100#G) - 0/100 psig (150#&V) - -15 to 75 psig (150#G) - 0/150 psig (150#&V) - -15 to 150 psig (300#G) - 0/300 psig (300#&V) - -15 to 300 psig (500#G) - 0/500 psig (1000#G) - 0/1000 psig (1500#G) - 0/1500 psig	X [] [] Options XRH Traceable 9 Point Calibration Report
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ISO 9001
REGISTERED FIRM

BULLETIN GC31-1

All specifications are subject to change without notice.
 All sales subject to standard terms and conditions.
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