

## Model GC31 Ultra-Compact Digital Pressure Sensor



GC31 LOWER  
CONNECT

GC31 BACK  
CONNECT

ACTUAL SIZE



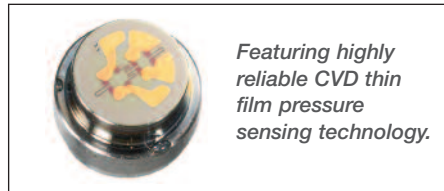
**CE**  
 LOOK FOR THIS  
 AGENCY MARK ON  
 OUR PRODUCTS

### 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:  $\pm 1.0\%$  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

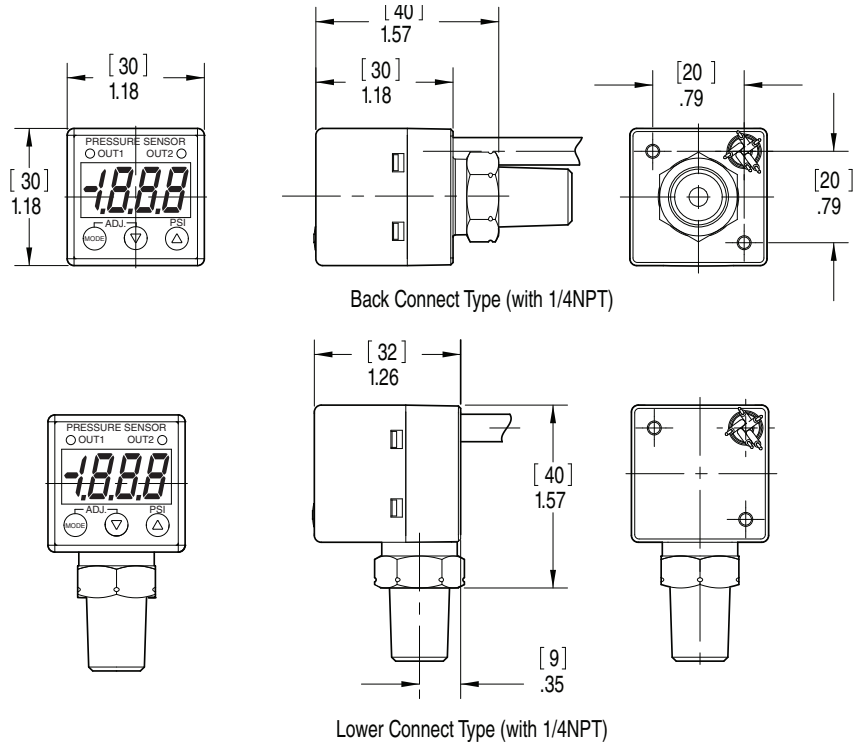
Weight: Approx. 110 grams

Mounting: Panel mounting bracket included (back connect only)

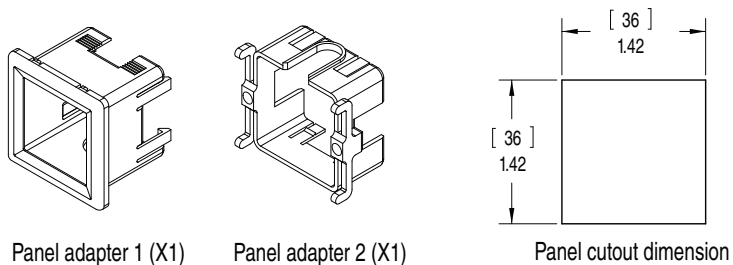
Media: Fluids and gases compatible with 304 SS (sensor housing) and 17-4 pH SS (sensor diaphragm)

## Model GC31 Ultra-Compact Digital Pressure Sensor

### Dimensions (mm) Inches



### Panel Mounting Kit (for back connect types only)



#### Notes:

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

### How to order

<b>G C 3 1</b>	<b>7</b>			<b>F 4</b>			<b>X</b>
<b>Type</b> (GC31)	<b>Accuracy</b> (7) ±1.0%	<b>Connection/Locatoin</b> (M02L) ¼ NPT Male w/lower connect (M02B) ¼ NPT Male w/back connect	<b>Output Signal</b> (1N) 1-5Vdc: Analog w/2X NPN Type switches (1P) 1-5Vdc: Analog w/2X PNP Type switches	<b>Electrical Connection</b> (F4) 6 (2m) cable	<b>Pressure Range</b> 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		<b>Options</b> <b>XRH</b> Traceable 9 Point Calibration Report