Data Sheet



GC31 Ultra-Compact Digital Transducer

FEATURES

- Combination of digital pressure gauge, switch and transducer
- Simple "push-button" configurability allows user to adjust switch settings and analog scaling
- Numerous standard ranges available

TYPICAL USES

- Hydraulic presses
- Stamping equipment
- I ifte
- Tire press vulcanization
- Pressure monitoring
- Water, refrigerant or ammonia based cooling systems
- Pressure monitoring on lubrication systems

PERFORMANCE SPECIFICATIONS

Reference Temperature:

73°F (23°C)

Analog Output:

1-5 Vdc

Accuracy:

±1.0% of span

Accuracy.

±1.0% 01 Spail

Accuracy includes linearity, hysteresis and

repeatability (URL)

Response Time: 50 ms

Output Resolution: 25 mV

Analog Scaling: User may configure analog output scaling to any

range within F.S. of sensor range

Pressure Switch Output:

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

Setting Accuracy: ±1.0% of span (URL)

Number of Contacts: 2

Time Delay: 5 ms-2 sec (selectable)

Hysteresis: Variable deadband (by user)

Switch Setting: User may adjust switch actuation and dead-band to

any points within F.S. sensor range

Display:

Type: 3½ digit, 10 mm LED

Accuracy: $\pm 1.0\%$ of span + last digit (URL)

Display Setting: User may re-configure display scaling, set to capture

MIN or MAX value, and adjust display update rate

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

ENVIRONMENTAL SPECIFICATIONS

Temperature

Effects: Zero/Span: $\pm 0.03\%$ span/F ($\pm 0.05\%$ F.S./C)

(ref. 73°F (23°C))

Temperature Storage: -22°F to 140°F (-30°C to 60°C) Limits: Operating: -4°F to 140°F (-20°C to 60°C)

Operating: -4°F to 140°F (-20°C to 60°C) Compensated: 14°F to 122°F (-10°C to 50°C)

Humidity: 0-85% RH, Non-condensing



KEY BENEFITS

- Ultra-compact indicating transducer with analog scaling and switch options
- Field-proven thin film sensor
- Monitors a wide variety of applications

FUNCTIONAL SPECIFICATIONS

 Overpressure:
 Proof:
 Burst:

 <500 psi</td>
 2 X Range (URL)
 8 X Range (URL)

 >1,000 psi
 1.5 X Range (URL)
 8 X Range (URL)

ELECTRICAL SPECIFICATIONS

Power Supply Requirements:

Supply Voltage: 11-27 Vdc

Current Consumption:

30 mA (Max.)

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00 (.......)

Switch Contacts:

(2) NPN or PNP open collector outputs

NPN:

30 Vdc / 80 mA (Max.)

PNP:

Voltage drop 1 Vdc (Max.) / 80 mA (Max.)

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PHYSICAL SPECIFICATIONS						
Pressure Connection:	1/4 NPT Male					
Environmental Rating:	IP40					
Weight:	Approx. 110 grams					
Mounting:	Panel mounting bracket included (Back connect only)					
Electrical Connection Size:	6´ cable pigtail					
OPTIONAL FEATURES						
Calibration Report:	9 point traceable calibration report					

WETTED MATERIAL								
Diaphragm	Process Connection	Media Compatibility						
17-4PH SS	304 SS	Fluids and gases compatible with 316 SS (sensor housing) and 17-4PH SS (sensor diaphragm)						
NON-WETTED								
Enclosure								

ABS, polycarbonate, aluminum



Featuring highly reliable CVD thin film pressure sensing technology

ORDERING CODE	Example:	GC31	7	M02B	1N	F4	15#&V	- XRH
Model	<u> </u>							
GC31 - Ultra-compact digital pressure sensor		GC31						
Accuracy								
7 - ±1.0% of span			7					
Pressure Fitting								
M02L - ¼ NPT Male w/lower connect								
M02B - 1/4 NPT Male w/ back connect				M02B				
Output Signal					481			
1N - 1-5 Vdc: Analog w/2X NPN Type switches					1N			
1P - 1-5 Vdc: Analog w/2X PNP Type switches								
F4 - 6' (2m) cable						F4		
Pressure Range								
Compound								
15#&V - Vac-15 psig							15#&V	
75#&V - Vac-75 psig								
150#&V - Vac-150 psig								
300#&V - Vac-300 psig								
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 - 0-1,000 psig								
1500#G - 0-1,500 psig						,		
Option (if including an option(s) must include an "X")								X
RH - Traceable 9 point calibration report								RH

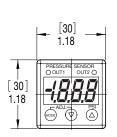


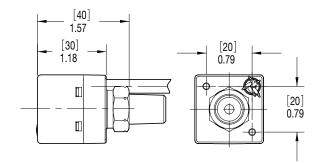
GC31 Ultra-Compact Digital Transducer

DIMENSIONS in [] are millimeters

For reference only, consult Ashcroft for specific dimensional drawings

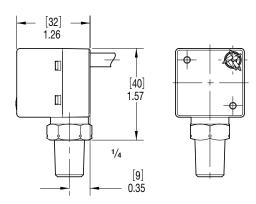
Back Connect





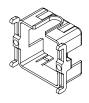
Lower Connect

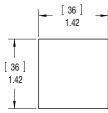




Panel Mounting Kit (back connection only)







Panel Adapter 1 (X1)

Panel Adapter 2 (X1)

Panel Cutout dimension

Notes:

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