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
- Lifts

Humidity:

- Tire press vulcanization
- Pressure monitoring
- Water, refrigerant or ammonia based cooling systems
- Pressure monitoring on lubrication systems

PERFORMANC	E SPECIFICATIONS			
Reference Temperature:	73 °F (23 °C)			
Analog Output:	1-5 Vdc			
Accuracy:	$\pm 1.0\%$ of span 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 Ou	utput:			
Туре:	NPN or PNP open collector up to 30 Vdc/80 mA			
Setting Accuracy:	$\pm 1.0\%$ 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:				
Туре:	31/2 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			
ENVIRONMENT	AL SPECIFICATIONS			
Temperature Effects: (ref. 73°F (23°C))	Zero/Span: ±0.03% span/F (±0.05% F.S./C)			
Temperature Limits:	Storage: -22 °F to 140 °F (-30 °C to 60°C) Operating: -4 °F to 140° F (-20 °C to 60 °C)			



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: <500 psi >1,000 psi	Proof: 2 X Range (URL) 1.5 X Range (URL)	Burst: 8 X Range (URL) 8 X Range (URL)				
ELECTRICAL SPECIFICATIONS						
Power Supply Requirements:						
Supply Voltage:	11-27 Vdc					
Current Consumption:	30 mA (Max.)					
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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0-85% RH, Non-condensing

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



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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:	Traceable calibration certificate			

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								
GC31 - Ultra-compact digital pressure sensor		GC31						
Accuracy				_				
7 - ±1.0% of span			7	_				
Pressure Fitting								
M02L - ¼ NPT Male w/ lower connect M02B - ¼ NPT Male w/ back connect				M02B				
Output Signal				IVIU2B				
1N - 1-5 Vdc: Analog w/2X NPN Type switches					1N	-		
1P - 1-5 Vdc: Analog w/2X PNP Type switches					IIN	-		
Electrical Connection						-		
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 calibration certificate								RH

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GC31 Ultra-Compact Digital Transducer

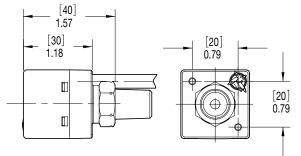


DIMENSIONS in [] are millimeters

For reference only, consult Ashcroft for specific dimensional drawings

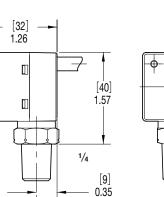
Back Connect





Lower Connect



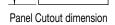


Panel Mounting Kit (back connection only)



Panel Adapter 1 (X1)

Panel Adapter 2 (X1)



[36] 1.42

[36] 1.42

Notes:

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

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