

Interactive Catalog Replaces Catalog Pages

Honeywell Sensing and Control has replaced the PDF product catalog with the new **Interactive Catalog**. The **Interactive Catalog** is a power search tool that makes it easier to find product information. It includes more installation, application, and technical information than ever before.



**Click this icon to try the new
Interactive Catalog.**

Sensing and Control

Honeywell Inc.

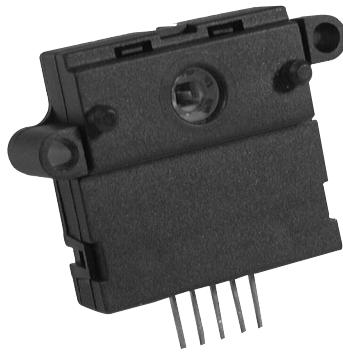
11 West Spring Street

Freeport, Illinois 61032

Pressure Sensors

Gage Amplified

189PC Series



FEATURES

- Manifold mount/O-ring sealed
- Fully signal conditioned
- PCB termination
- Operating temperature up to 125°C
- Glass chip tube (non-outgassing)

189PC PERFORMANCE CHARACTERISTICS @ 8.0 ±0.01 VDC Excitation, 25°C

	Min	Typ	Max	Units
Excitation	7.00	8.00	16.0	VDC
Supply Current	—	—	6	mA
Current Sourcing Output	—	—	10	mA
Null Offset	0.95	1.00	1.05	V
Output at Full Pressure	5.80	6.00	6.15	V
Ratiometricity Error 7 to 8V or 8 to 9V 9 to 12 V	—	±0.50	—	% Span
Temperature Error (Combined null and span)	—2	0	+2	% Span
Stability over One Year	—	±0.50	—	% Span
Response Time	—	—	1.00	ms
Weight	—	12	—	grams
Short Circuit Protection	Output may be shorted indefinitely to ground			
Output Ripple	None, DC Device			
Ground Reference	Supply and output are common			

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature	−40°C to +85°C (−40° to +185°F)		
Storage Temperature	−55° to +125°C (−67° to +257°F)		
Compensated Temperature	0° to +50°C (32° to +122°F)		
Shock	MIL-STD-202, Method 213 (50g, half sine, 6 msec)		
Vibration	MIL-STD-202, Method 204 (10 to 2000 Hz at 10 g)		
Media	P2 port	Wetted materials; polyester housing, epoxy adhesive, silicon, borosilicate glass, and silicon-to-glass bond*	

*Liquid media containing some highly ionic solutions could potentially neutralize the chip-to-glass tube bond.

Amplified

Pressure Sensors

Gage Amplified

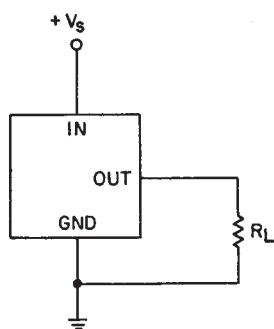
189PC Series

189PC SERIES ORDER GUIDE GAGE TYPE

Catalog Listing	Pressure Range psi	Overpressure psi Max.	Linearity, % Span
			P2 > P1 Max.
189PC15GM	0-15	45	± 2.00
189PC100GM	0-100	250	± 1.50
189PC150GM	0-150	250	± 1.50

Electrical Connections

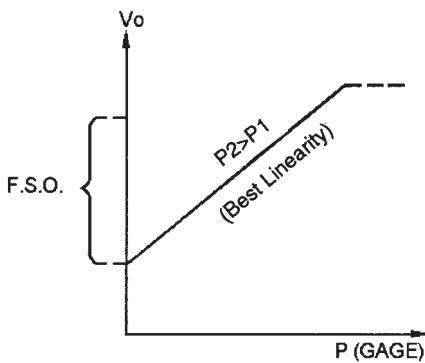
Voltage Excitation



Pin Designation

Pin 1 = V_{SS}
 Pin 2 = V_{out}
 Pin 3 = GND
 Pin 4 = No Connect
 Pin 5 = V_{CC}

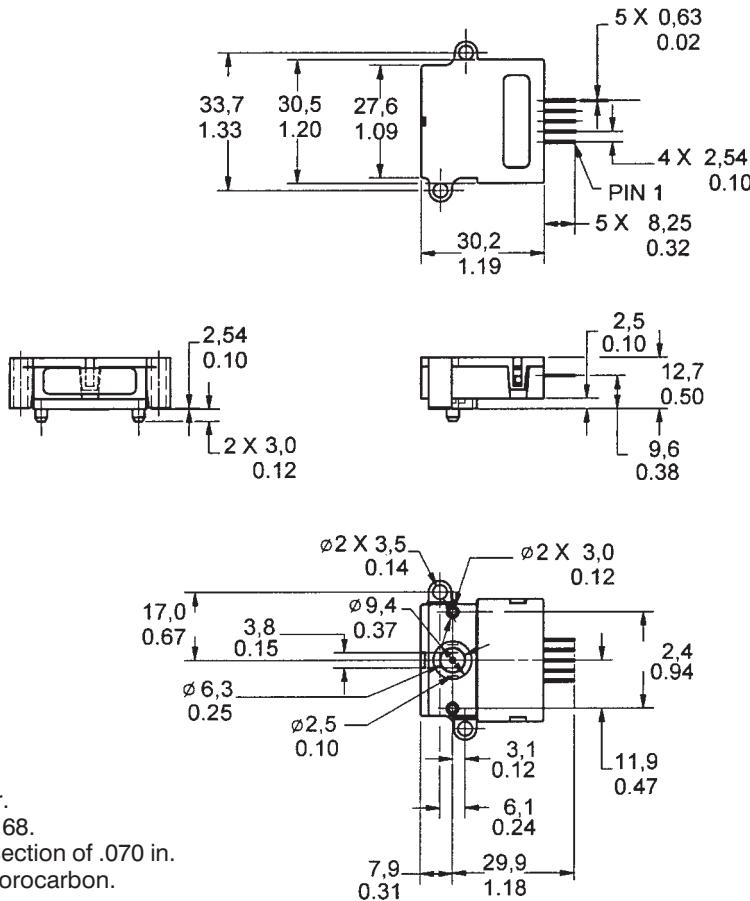
Pressure Reference Gage



NOTES

1. Input and output share a common ground.
2. R_L must be greater than or equal to 3000 ohms.

MOUNTING DIMENSIONS (for reference only)



O-Ring provided with sensor.
 O-Ring Part Number: SS-12168.
 O.D. of .114 in. and a cross section of .070 in.
 Material is 70 Durometer Fluorocarbon.