# **Pressure Sensors**

# Gage Amplified





#### **FEATURES**

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

## 189PC PERFORMANCE CHARACTERISTICS @ 8.0 $\pm 0.01$ VDC Excitation, 25°C

	Min	Тур	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 ±2.00		% Span % 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 r	Output may be shorted indefinitely to ground			
Output Ripple	None, D	None, DC Device			
Ground Reference	Supply	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*	

<sup>\*</sup>Liquid media containing some highly ionic solutions could potentially neutralize the chip-to-glass tube

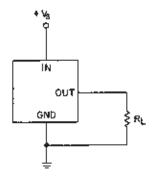
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#### 189PC SERIES ORDER GUIDE GAGE TYPE

	Pressure	Overpressure	Linearity, %Span
Catalog Listing	Range psi	psi Max.	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**

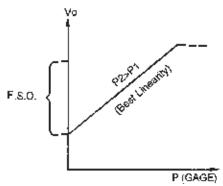
 $Pin 1 = V_{SS}$ 

 $Pin 2 = V_{out}$ 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 must be greater than or equal to 3000 ohms.

#### **MOUNTING DIMENSIONS** (for reference only)

