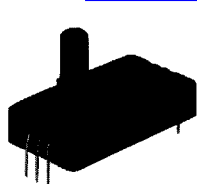


Pressure Sensors

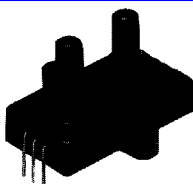
180PC Series

Miniature Absolute, Differential, Gage/Amplified

[查询"184PC05GH"供应商](#)



Terminal Mount



Housing Mount

FEATURES

- Miniature plastic package
- Terminal and housing mount styles
- PCB termination
- Fully signal conditioned

180PC SERIES PERFORMANCE CHARACTERISTICS at 8.0 ± 0.01 VDC Excitation, 25°C

	Min.	Typ.	Max.	Units
Excitation	7.00	8.00	16	VDC
Supply Current	---	---	6	mA
Current Sourcing Output	---	---	10	mA
Null Offset (184/185PC)	0.95	1.00	1.05	V
Null Offset (186PC)	3.45	3.50	3.55	V
Output at Full Pressure (184/185PC, G,D)	5.90	6.00	6.15	V
Output at Full Pressure (185PC, A only)	5.85	6.00	6.15	V
Output at Full Pressure (186PC)	5.90	6.00	6.10	V
Full Scale Output, F.S.O. (184/185PC, G,D)	4.95	5.00	5.05	V
Full Scale Output, F.S.O. (185PC, A only)	4.90	5.00	5.10	V
Full Scale Output, F.S.O. (186PC)	---	5.00	---	V
Temperature Error (Combined null and span)	-2%	0	+2%	%F.S.O.
Stability over One Year	---	±0.50	---	%F.S.O.
Response Time	---	---	1.00	msec
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° 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 (50 g, half sine, 11 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*
	P2 port Absolute only: Factory sealed vacuum reference, no connection
	P1 port Dry gases only

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

Pressure Sensors

180PC Series

Miniature Absolute, Differential, Gage/Amplified

查询"184PC05GT"供应商

184PC SERIES ORDER GUIDE, VACUUM GAGE TYPE

Catalog Listing	Pressure Range psi	Overpressure psi Max.	Linearity, %F.S.O.	
			P2 > P1 Max.	P2 < P1 Max.
184PC05GT	0-5	20	---	±1.00
184PC15GT	0-15	45	---	±1.00

185PC SERIES ORDER GUIDE, DIFFERENTIAL TYPE, P2 > P1

Catalog Listing	Pressure Range psi	Overpressure psi Max.	Linearity, %F.S.O.	
			P2 > P1 Max.	P2 < P1 Max.
185PC05DT	0-5	20	±2.00	±1.00
185PC15DT	0-15	45	±2.00	±1.00
185PC30DT	0-30	60	±1.50	±0.75

186PC SERIES ORDER GUIDE, BI-DIRECTIONAL TYPE, P2-P1

Catalog Listing	Pressure Range psi	Overpressure psi Max.	Linearity, %F.S.O.	
			P2 > P1 Max.	P2 < P1 Max.
186PC03DT	±2.5	20	±2.00	±1.00
186PC05DT	±5.0	20	±2.00	±1.00
186PC15DT	±15	45	±2.00	±1.00

185PC SERIES ORDER GUIDE, ABSOLUTE TYPE*

Catalog Listing	Pressure Range psi	Overpressure psi Max.	Linearity, %F.S.O.	
			P2 > P1 Max.	P2 < P1 Max.
185PC15AT	0-15	45	---	±1.00
185PC30AT	0-30	60	---	±0.75

*Tested at 2 psia reference.

HOW TO ORDER

Catalog listings in the order guide are shown with mounting version **T** (terminal mount). **H** (housing mount) also available. Contact 800 number.

Amplified

Pressure Sensors

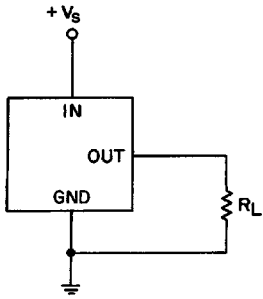
Miniature Absolute, Differential, Gage/Amplified

180PC Series

查询"184PC05GH"供应商

ELECTRICAL CONNECTIONS

Voltage Excitation



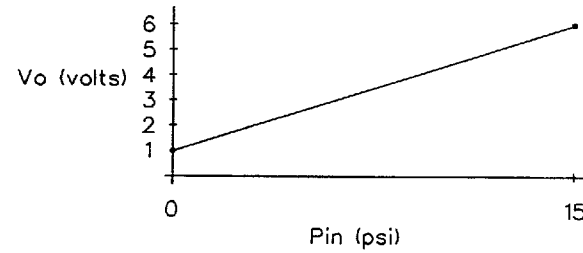
NOTES

1. Terminals are labeled on the sensor.
2. Input and output share a common ground.
3. R_L must be greater than or equal to 3000 ohms.

IDEAL OUTPUT AT $V_s = 8.00 \pm 0.01$ VDC

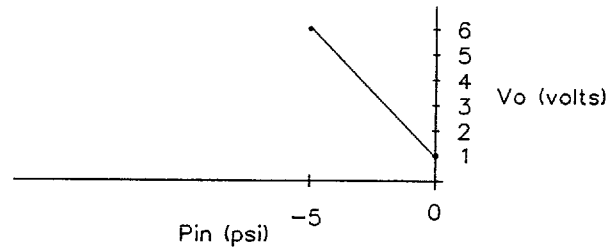
Differential

Example: 185PC15DT when $P_{IN} = P_2 - P_1$



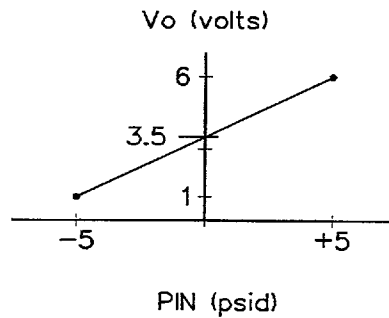
Vacuum Gage

Example: 184PC05GT where $P_2 = P_{IN}$ $P_1 = \text{Ambient}$



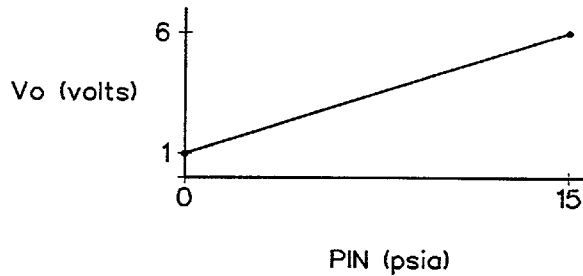
Bi-directional

Example: 186PC05DH where $P_{IN} = P_2 - P_1$



Absolute

Example: 185PC15AP where $P_1 = P_{IN}$ $P_2 = \text{Factory sealed vacuum}$



Pressure Sensors

180PC Series

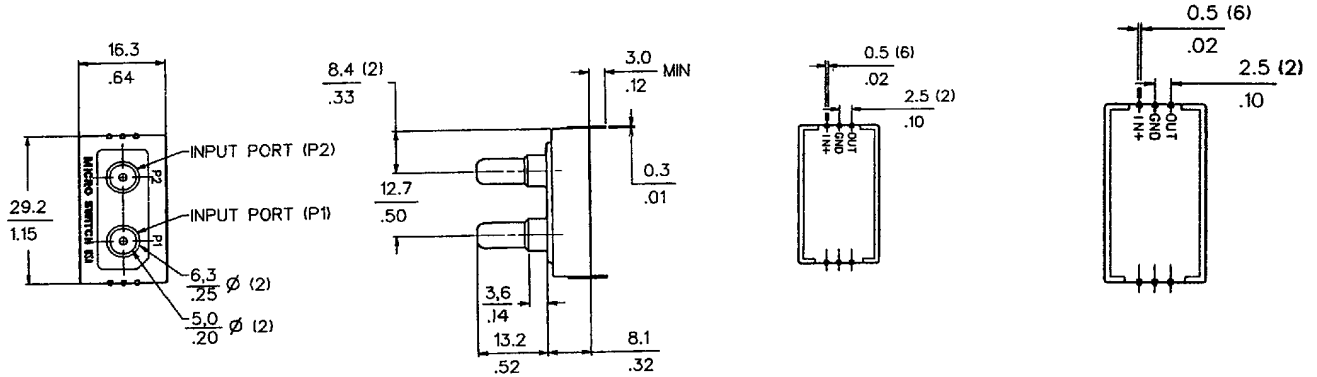
Miniature Absolute, Differential, Gage Sensored/Amplified

查询"184PC05GH"供应商

MOUNTING DIMENSIONS

0.0 = mm
0.00 = in.

Terminal Mount (Differential "D" or Absolute "A" Housing)



Housing Mount

(Gage "G" Housing)

