

## 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.**

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### **Sensing and Control**

Honeywell Inc.

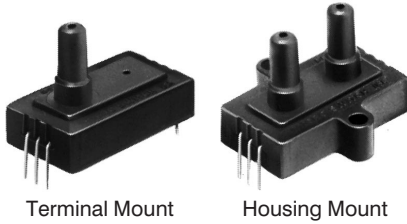
11 West Spring Street

Freeport, Illinois 61032

# Pressure Sensors

180PC Series

## Miniature Absolute, Differential, Gage/Amplified



### 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
Null Offset				
185PC15AT @ 2 psia	1.62	1.67	1.72	V
185PC30AT @ 2 psia	1.28	1.33	1.38	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
Span (184/185PC, G,D)	4.95	5.00	5.05	V
Span (185PC, A only)	4.90	5.00	5.10	V
Span (186PC)	---	5.00	---	V
Span (185PC15AT)	4.28	4.33	4.38	V
Span (185PC30AT)	4.62	4.67	4.72	V
Ratiometricity Error				
7 to 8V or 8 to 9V	---	±0.50	---	% Span
9 to 12V	---	±2.00	---	% Span
Temperature Error (Combined null and span)	-2%	0	+2%	% Span
Stability over One Year	---	±0.50	---	% Span
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			

Amplified

### 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, 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*
	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

### 184PC SERIES ORDER GUIDE, VACUUM GAGE TYPE

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

### 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.

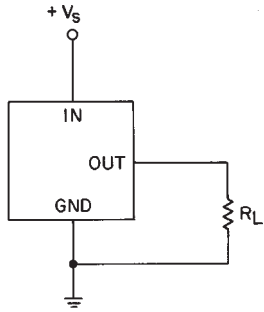
# Pressure Sensors

## Miniature Absolute, Differential, Gage/Amplified

180PC Series

### ELECTRICAL CONNECTIONS

#### Voltage Excitation



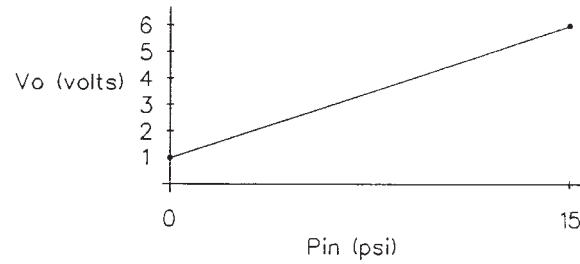
#### NOTES

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

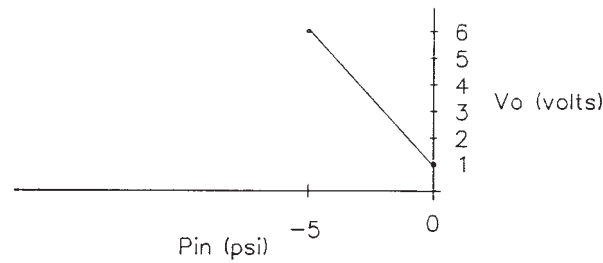
#### Differential

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



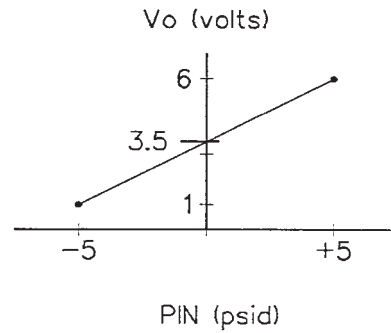
#### Vacuum Gage

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



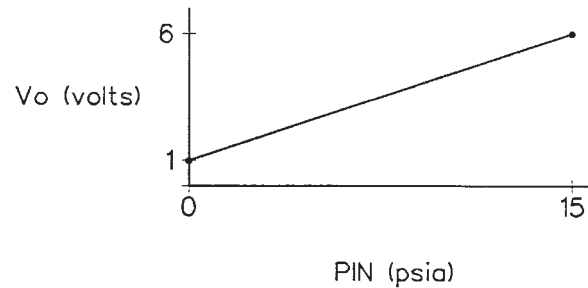
#### Bi-directional

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



#### Absolute

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



Amplified

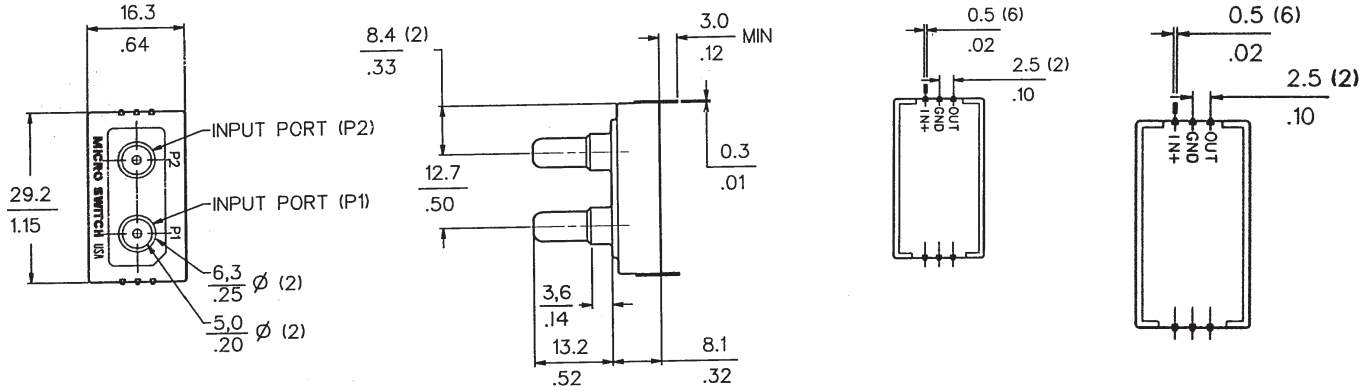
# Pressure Sensors

180PC Series

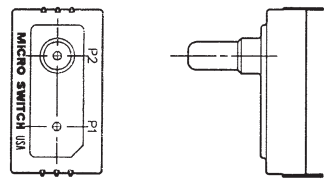
## Miniature Absolute, Differential, Gage Sensored/Amplified

**MOUNTING DIMENSIONS**     $\frac{0.0}{0.00} = \text{mm}$   
     $\frac{0.00}{0.00} = \text{in.}$

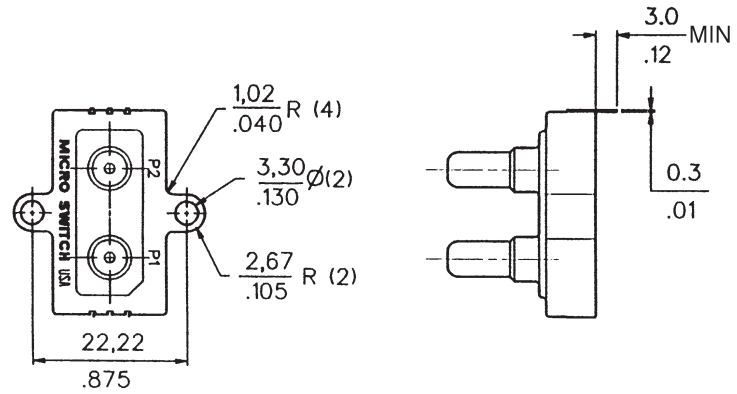
### Terminal Mount (Differential "D" or Absolute "A" Housing)



### (Gage "G" Housing)



### Housing Mount





Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



#### Как с нами связаться

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**Факс:** 8 (812) 320-02-42

**Электронная почта:** [org@eplast1.ru](mailto:org@eplast1.ru)

**Адрес:** 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.