

## 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.

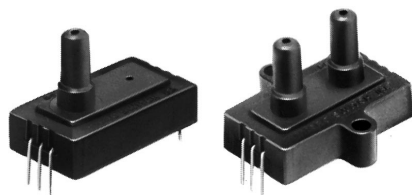
11 West Spring Street

Freeport, Illinois 61032

# Pressure Sensors

180PC Series

## Miniature Absolute, Differential, Gage/Amplified



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      |
| 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.

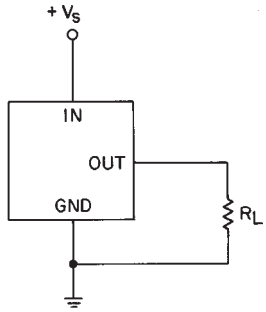
# Pressure Sensors

180PC Series

## Miniature Absolute, Differential, Gage/Amplified

### ELECTRICAL CONNECTIONS

#### Voltage Excitation



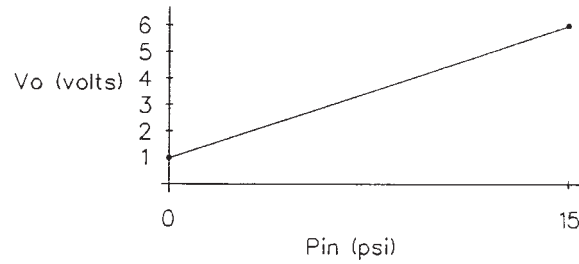
#### NOTES

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

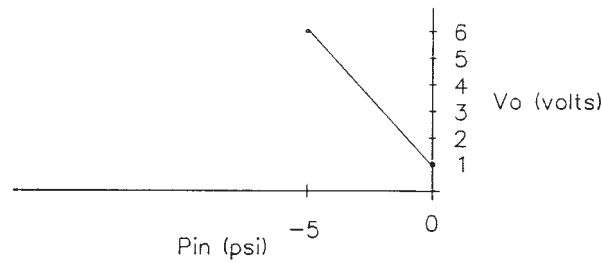
#### Differential

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



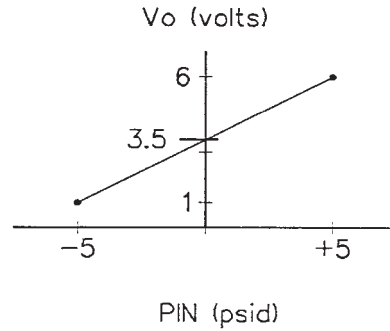
#### Vacuum Gage

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



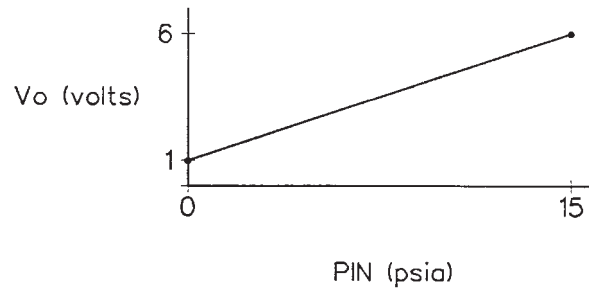
#### Bi-directional

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



#### Absolute

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



Amplified

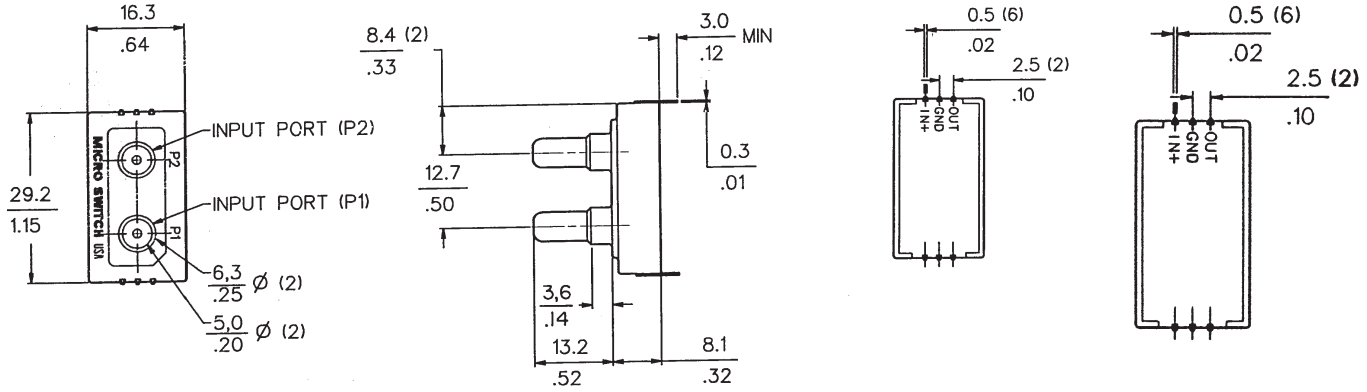
# Pressure Sensors

180PC Series

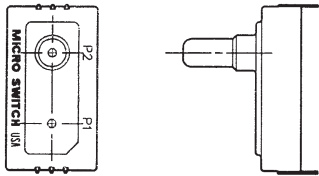
## Miniature Absolute, Differential, Gage Sensored/Amplified

**MOUNTING DIMENSIONS**     $\frac{0.0}{0.00} = \text{mm}$   
     $\frac{0.00}{.00} = \text{in.}$

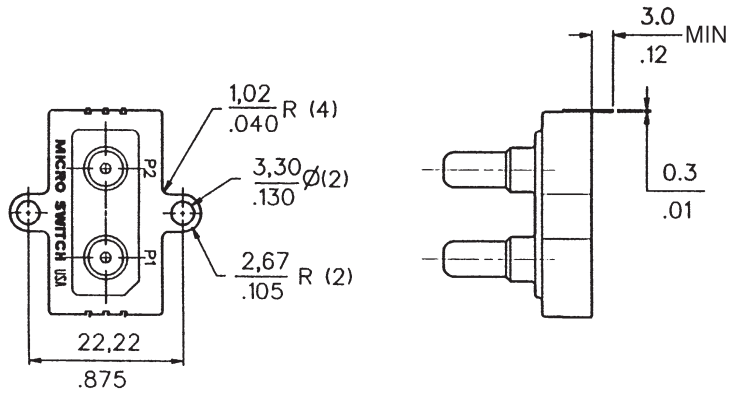
### Terminal Mount (Differential "D" or Absolute "A" Housing)



### (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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