

# **Honeywell Sensing and Control**

# 142PC30A



Actual product appearance may vary.

Pressure Sensors: Measurement Type: Absolute; Signal Conditioning: Amplified; Pressure Range: 0 psia to 30.0 psia; Port Style: Straight

#### **Features**

- Robust package
- PCB termination
- Fully signal conditioned
- Amplified

### **Potential Applications**

### **Environmental**

- Weather monitoring equipment
- Altimeters
- Radiometers
- Leak detection systems in underground telecommunications cables

# **Description**

140PC Series pressure sensors provide an output voltage that is proportional to the pressure applied. They operate in ranges from 0 psia to 15.0 psia to 0 psia to 30.0 psia using a single, positive supply voltage ranging from 7.0 Vdc to 16.0 Vdc.

| Product Specifications |   |
|------------------------|---|
| Measurement Type       | Absolute                                  |
| Signal Conditioning    | Amplified                                 |
| Pressure Range         | 0 psia to 30.0 psia                       |
| Maximum Overpressure   | 60.0 psia                                 |
| Supply Voltage         | 7.0 Vdc min., 8.0 Vdc typ., 16.0 Vdc max. |
| Compensated            | Yes                                       |
| Output Calibration     | Yes                                       |
| Response Time          | 1 ms max.                                 |
| Termination            | PCB                                       |
| Port Style             | Straight                                  |
| Package Style          | Honeywell - 100PC                         |
| Linearity              | ± 0.40% span max. (P2 < P1)               |
| Typical Sensitivity    | 0.167 V/psi                               |
| Full Scale Span        | 4.67 Vdc typ.                             |

| Null Offset                      | 1.33 Vdc typ.  |
|----------------------------------|--|
| Repeatability & Hysteresis Error | ± 0.15 % span typ.   |
| Shock                            | Qualification tested to 150 g  |
| Vibration                        | MIL-STD-202 Method 213 (150 g half sine 11 ms)   |
| Weight                           | 28 g [0.987 oz]  |
| Operating Temperature Range      | -40 °C to 85 °C [-40 °F to 185 °F]   |
| Compensated Temperature Range    | -18 °C to 63 °C [0 °F to 145 °F]   |
| Storage Temperature Range        | -55 °C to 125 °C [-67 °F to 257 °F]  |
| Media Compatibility              | Port 1: Dry gases only. Port 2:<br>Wetted materials. Polyester<br>housing, epoxy adhesive, silicon,<br>borosilicate glass and silicon-to-<br>glass bond. |
| UNSPSC Code                      | 411121   |
| UNSPSC Commodity                 | 411121 Transducers   |
| Availability                     | Global   |
| Series Name                      | 140PC  |

