



# HONEYWELL

## XPX100DT

*See full Datasheet below...*

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## XPX100DT



Actual product appearance may vary.

**Pressure Sensors: Measurement Type: Differential, Gage, Vacuum Gage; Signal Conditioning: Unamplified; Pressure Range: #177 100.0 psi; Port Style: Barbed**

### Features

Low Cost, Small Size  
 Temperature Compensated  
 Zero and Span Calibrated  
 MilliVolt Output  
 Gage, Differential, and Absolute Pressure  
 Constant Voltage Excitation  
 High Impedance- Low Current

### Potential Applications

Medical Applications  
 Applications Requiring Small Size  
 Applications Requiring Vacuum, Positive Pressure or Both

### Description

The XPXL/XPX and XPCL/XPC Series sensors integrate silicon micromachined sensing technology, temperature compensation, and calibration in a complete family of low cost packages. This series offers the most cost-effective solution for design requirements. These piezoresistive pressure sensors use micromachined silicon chips mounted on a ceramic and protected with a plastic cap. Several tube arrangements with nylon housings are available for various pressure applications. On devices of 5 psi and above, the topside of the chip is protected against humidity by a Silgel coating. While the sensors are designed for use with noncorrosive, nonionic pressure media, they accommodate many gases that are used in medical applications.

### Supporting Documentation

[Dimensions](#)

[Equivalent Circuit, Pin Designations](#)

[Engineering Drawing](#)

Product Specifications	
Measurement Type	Differential, Vacuum Gage, Gage
Signal Conditioning	Unamplified
Pressure Range	± 100 psi
Maximum Overpressure	250 psi
Supply Voltage	3.0 Vdc min., 12.0 Vdc typ., 16.0 Vdc max.
Compensated	No
Output Calibration	No
Termination	PCB
Port Style	Barbed
Package Style	Honeywell DI - XPX
Typical Sensitivity	7.08 mV/psi
Full Scale Span	295 mV typ.
Null Offset	0 mV typ.
Null Shift over Temperature	2500 ppm/°C
Span Shift Over Temperature	- 1800 ppm/°C
Linearity, Hysteresis Error	± 1.0 % max.Span
Input Resistance	2600 ppm/°C
Output Resistance	- 1800 ppm/°C
Operating Temperature Range	-25 °C to 85 °C [ - 13 °F to 185 °F]
Storage Temperature Range	- 40 °C to 125 °C [ - 40 °F to 257 °F]
Media Compatibility	Port 1: Dry gases only. Media must be compatible with epoxy based adhesive. Port 2: Wetted materials. Media must be compatible with nylon housing, epoxy adhesive and silicon.
UNSPSC Code	411121
UNSPSC Commodity	411121 Transducers
Availability	Global
Series Name	XPX

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