



# HONEYWELL

## XCAL4010DN

*See full Datasheet below...*

**onlinecomponents.com**

THE ONLINE DISTRIBUTOR OF ELECTRONIC COMPONENTS

**BUY NOW**



**MASTER**<sup>TM</sup>  
ELECTRONICS

**BUY NOW**

masterelectronics.com & onlinecomponents.com  
are **authorized** e-commerce distributors  
of electronic components.



Home > Products > Piezoresistive Silicon > XCAL > Product Page

### Order Product and Get Support

- U.S. Authorized Distributors
- Global Sales & Service
- N. American Sales Reps
- Distributor Inventory
- Technical Assistance
- White Papers
- Literature Request
- Test and Measurement Catalog
- RoHS Product List
- Customer Feedback

## XCAL4010DN



Actual product appearance may vary.

**Pressure Sensors: Measurement Type: Bidirectional Gage, Differential; Signal Conditioning: Unamplified; Pressure Range: 0 in H<sub>2</sub>O to 10.0 in H<sub>2</sub>O; Port Style: Barbed**

### Features

Precise Temperature Compensation  
Low cost  
High Performance  
Gage, Absolute and Differential Versions  
Constant Voltage Excitation  
Calibrated Output  
Ratiometric Output Voltage

### Potential Applications

Ventilators  
CPAP  
Audiometers  
Air Compressors  
Chemical Analyzers  
VAV Controller  
Airflow

### Description

The XCA Series of pressure sensors use state of the art silicon micromachined pressure sensors in conjunction with stress free packaging techniques to provide highly accurate, amplified, calibrated and temperature compensated pressure sensors for the most demanding applications.

### Supporting Documentation

[Dimensions](#)

[Equivalent Circuit, Pin Designations](#)

[Engineering Drawing](#)

Product Specifications	
Measurement Type	Differential, Bidirectional Gage
Signal Conditioning	Amplified
Pressure Range	0 in H <sub>2</sub> O to 10.0 in H <sub>2</sub> O
Maximum Overpressure	100 in H <sub>2</sub> O
Supply Voltage	3.0 Vdc min., 5.0 Vdc typ., 16.0 Vdc max.
Compensated	Yes
Output Calibration	Yes
Termination	PCB
Port Style	Barbed
Package Style	Honeywell DI - XCA
Typical Sensitivity	0.2 V/in H <sub>2</sub> O
Full Scale Span	4.0 Vdc typ.
Null Offset	2.25 Vdc typ.
Null Shift over Temperature	± 1% Span
Span Shift Over Temperature	± 1.0% span
Linearity, Hysteresis Error	± 0.5 % Span
Operating Temperature Range	-25 °C to 85 °C [ -13 °F to 185 °F]
Compensated Temperature Range	0 °C to 50 °C [32 °F to 122 °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	XCAL

### My Links

[Login to iCOM](#)  
[Login as Rep/AD](#)  
[Login as Guest](#)  
[Login to Digital University](#)

### Keyword Search

Search for product and support information.

All Sensing and Control

### Product Search

Part number search:

Use (\*) to expand search

[Specification Search](#)