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XCAL5004DN



Actual product appearance may vary.

Pressure Sensors: Measurement Type: Bidirectional Gage, Differential; Signal Conditioning: Unamplified; Pressure Range: 0 in H₂O to 4.0 in H₂O; 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](#)

Product Specifications	
Measurement Type	Differential, Bidirectional Gage
Signal Conditioning	Amplified
Pressure Range	0 in H ₂ O to 4.0 in H ₂ O
Maximum Overpressure	100 in H ₂ O
Supply Voltage	3.0 Vdc min., 8.0 Vdc typ., 16.0 Vdc max.
Compensated	Yes
Output Calibration	Yes
Termination	PCB
Port Style	Barbed
Package Style	Honeywell DI - XCA
Typical Sensitivity	0.625 V/in H ₂ O
Full Scale Span	5.0 Vdc typ.
Null Offset	3.50 dc typ.
Null Shift over Temperature	± 1.5 % 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

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