



SCXL004DN



Actual product appearance may vary.

Pressure Sensors: Measurement Type: Differential, Gage; 0 in H₂O to 4 in H₂O, Temperature Compensated, Straight Port

Features

- Very Low Pressure Resolution
- Precision Temperature Compensation
- Small Size
- Low Noise
- Calibrated Zero & Span
- High Impedance for Low Power Applications

Potential Applications

- Air Flow
- Respirators
- HVAC
- Medical Equipment
- Computer Peripherals
- Pneumatic Controls

Description

The SCXL series sensors provide a very cost-effective solution for pressure applications that require high accuracy over very low operating pressure ranges. These internally calibrated and temperature compensated sensors were specifically designed to provide an accurate and stable output over a 0 °C to 50 °C [32 °F to 122 °F] temperature range. This series is intended for use with non-corrosive, non-ionic working fluids such as air, dry gases and the like.

The output of the bridge is ratiometric to the supply voltage. Operation from any dc supply voltage up to 18 Vdc [Model SCXL004DN] or 20 Vdc [SCXL010DN] is acceptable.

Product Specifications	
Measurement Type	Differential, Gage
Signal Conditioning	Unamplified
Pressure Range	0 in H ₂ O to 4 in H ₂ O
Maximum Overpressure	10 in H ₂
Supply Voltage	18 Vdc max.
Compensated	Yes
Output Calibration	Yes
Response Time	500 •s
Termination	PCB
Port Style	Straight
Package Style	6-pin SIP

Typical Sensitivity	10 mV/in H2O
Full Scale Span	38.0 mV min, 40.0 mV typ., 42.0 mV max.
Span Shift Over Temperature	± 0.2% span typ., ± 1.0% span max.
Zero Pressure Offset	-0.3 mV min., 0.0 mV typ., 0.3 mV max.
Repeatability	± 0.2% span typ., ± 0.5% span max.
Input Resistance	4.0 kOhm typ.
Output Resistance	4.0 kOhm typ.
Operating Temperature Range	0 °C to 70 °C [32 °F to 158 °F]
Compensated Temperature Range	0 °C to 50 °C [32 °F to 122 °F]
Storage Temperature Range	0 °C to 70 °C [32 °F to 158 °F]
Media Compatibility	Clean, dry gases only.
UNSPSC Code	411121
UNSPSC Commodity	411121 Transducers
Comment	Lead Temperature Soldering 2 s to 4 s at 250 °C [482 °F]
Availability	Global
Series Name	SCX