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## SCC15DN



Actual product appearance may vary.

**Pressure Sensors: Measurement Type: Differential, Gage; 0 psid to 15 psid Operating Pressure, Constant Current, "N" Package - Straight Port**

### Features

Low Cost Sensor Element  
Internal Temperature Compensation  
Differential or Gage Pressures

### Potential Applications

Pneumatic Controls  
Automotive Diagnostics  
Medical Equipment  
Dental Equipment  
Environmental Controls

### Description

The SCC Series sensors offer an extremely low cost sensor element with a temperature stable output when driven with a constant current source. These integrated circuit sensors were designed for extremely cost sensitive applications where precise accuracy over a wide temperature range is not required. This series is intended for use with non-corrosive, non-ionic working fluids such as air, and dry gases.

Absolute devices have an internal vacuum reference and an output voltage proportional to applied pressure. The differential devices allow application of pressure to either side of the diaphragm and devices are thereby available to measure both differential and gage pressures.

This product is packaged either in standard low cost chip carrier ? button? package or a DIP package. Both packages are designed for applications where the sensing element is to be integral to the OEM equipment. These packages can be o-ring sealed, epoxied, and/or clamped onto a pressure fitting. A closed bridge four pin SIP configuration is provided for electrical connection to the button package. The DIP package offers a 5-pin open bridge configuration.

### Supporting Documentation

[Dimensions](#)

[Electrical Connections](#)

[Equivalent circuit](#)

Product Specifications	
Measurement Type	Differential, Gage
Signal Conditioning	Unamplified
Pressure Range	0 psid to 15 psid
Maximum Overpressure	30 psi
Supply Current	1.5 mA max.
Compensated	Yes
Output Calibration	No
Response Time	0.1 ms typ.
Termination	PCB
Port Style	Straight
Package Style	N
Full Scale Span	55 mV
Zero Pressure Offset	- 30.0 mV min., - 10.0 mV typ., 20.0 mV max.
Accuracy (% Best Fit Straight Line)	.5 %
Input Resistance	4.0 kOhm min., 5.0 kOhm typ., 6.5 kOhm max.
Output Resistance	4.0 kOhm min., 5.0 kOhm typ., 6.5 kOhm max.
Operating Temperature Range	-40 °C to 85 °C [ -40 °F to 185 °F]
Compensated Temperature Range	0 °C to 50 °C [32 °F to 122 °F]
Storage Temperature Range	-55 °C to 125 °C [ -67 °F to 257 °F]
Media Compatibility	Clean, dry gases only.
UNSPSC Code	411121
UNSPSC Commodity	411121 Transducers
Availability	Global
Series Name	SCC

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