



**OEM Pressure, Constant Current DIP  
OEM Pressure, Constant Voltage DIP**

- OEM PRESSURE TRANSDUCER FULLY TEMPERATURE COMPENSATED AND CALIBRATED DUAL-IN-LINE PACKAGE

## DESCRIPTION

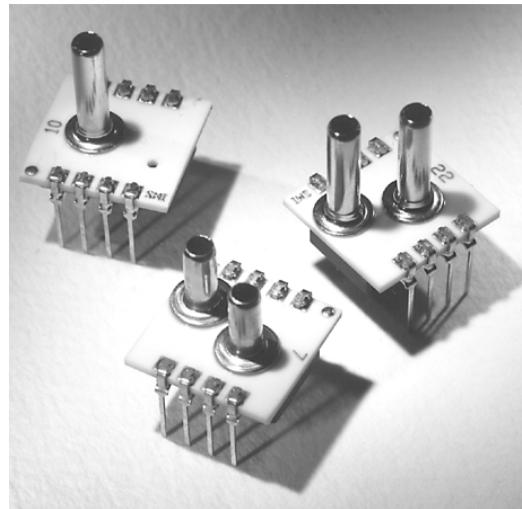
The **SM5600** Series of OEM pressure sensors are fully calibrated, temperature compensated pressure sensors in dual in-line packages for printed circuit board mounting. These sensors offer improved performance as well as the option for either constant current or constant voltage excitation. Ultra-low pressure ranges are also available (see **SM5651/SM5652** datasheet), resulting in the broadest selection of standard pressure ranges in the industry.

The **SM5600** Series pressure sensors are constructed by attaching a highly stable piezoresistive pressure sensor chip to a ceramic substrate. Thick film resistors on the ceramic are laser trimmed during manufacturing to provide zero offset calibration, temperature compensation for zero offset, and temperature compensation for sensitivity. In the Model **SM5611**, an additional resistor is trimmed to normalize the output of an external differential amplifier to provide span calibration when the sensor is driven by a constant current supply. In the Model **SM5612**, a constant voltage supply can be used and the normalized output span of each sensor can then be easily amplified.

The model **SM5611** is designed for constant current excitation.

The model **SM5612** is designed for constant voltage excitation.

Various electrical pin and pressure port configurations are available for flexibility in matching this product to specific applications.



## FEATURES

- 5, 15, 30, 60, and 100 PSI FS Ranges Available
- Constant voltage and constant current versions
- Easy to use dual in-line package (DIP)
- Wide 0-60°C compensated temperature range
- Span calibration to  $\pm 2\%$
- Zero offset calibration
- High performance, stable packaged silicon chip
- Gage, differential, and absolute pressure configurations

## APPLICATIONS

- Barometric Pressure
- Medical Instrumentation
- Environmental Control
- Altimeters
- Automotive Diagnostics
- Appliances



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