

## 26PC15SMT



Actual product appearance may vary.

**Pressure Sensors: Measurement Type:**  
**Gage, Vacuum Gage, Wet/Wet Differential;**  
**Unamplified; Pressure Range:  $\pm 15.0$  psi;**  
**Port Style: Straight**

### Features

Alignment pins for position accuracy

Small package size (less than one half the size of the 26PC) and compact surface mount profile

3,18 mm [0.125 in] diameter pick-up feature for use in pick and place machines

Maximum peak reflow temperature of 260 °C [500 °F]

Gage, vacuum gage, differential gage, wet/wet differential sensing available in one package

True wet/wet differential sensing

Proven elastomeric interconnections of the 20PC family

Temperature compensation

End point calibration

Sensor consists of only five components

Elastomeric construction

Wide operating temperature range of -40 °C to 85 °C [-40 °F to 185 °F]

### Potential Applications

#### Medical

CPAP (Continuous Positive Airway Pressure) equipment

Respirators and ventilators

Blood glucose monitors

Oxygen conservers

Oxygen concentrators

Nebulizers

#### Environmental

Residential fuel cells

#### Industrial

Soft drink dispensing

### Description

The 26PC SMT (Surface Mount Technology) Series pressure sensor, the first offering in the 20PC SMT family of pressure sensors, is a small, low cost, high value, pressure sensing solution for use with printed circuit boards (PCBs). Based on the long established reliability and accuracy of the 26PC pressure sensor, the 26PC SMT offers reduced size with true SMT capability. The smaller size reduces the sensor's footprint on the PCB, thereby reducing the size of the PCB. The 26PC SMT is the first pressure sensor capable of being used with other SMT components on the PCB, helping to lower installation costs and eliminate secondary operations.

The sensor features Wheatstone bridge construction, silicon piezoresistive technology, and ratiometric output for proven application flexibility, design simplicity and ease of manufacture.

Although designed for the medical industry, the 20PC SMT pressure sensor may be applied in any industry that requires a surface mount pressure sensor.

### Product Specifications

Measurement Type	Gage, Vacuum Gage, Wet/Wet Differential
Signal Conditioning	Unamplified
Pressure Range	$\pm 15.0$ psi
Maximum Overpressure	45.0 psi
Supply Voltage	10.0 Vdc typ., 16.0 Vdc max.

Compensated	Yes
Output Calibration	Yes
Response Time	1 ms max.
Termination	Surface Mount Technology; 2 x 2
Port Style	Straight - 1,88 mm dia [.074 in]
Package Style	Honeywell - 20PC SMT
Linearity	± 0.50 % span typ., ± 1.0 % span max.
Typical Sensitivity	6.67 mV typ
Full Scale Span	96 mV min., 100 mV typ., 104 mV max.
Null Offset	-2 mV min, 0 mV typ., 2 mV max
Null Shift over Temperature	± 1.0 mV max.
Span Shift Over Temperature	± 0.75 % span typ., ± 1.5 % span max.
Repeatability & Hysteresis Error	± 0.20 % span typ.
Input Resistance	5.5 kOhms min., 7.5 kOhms typ., 11.5 kOhms max.
Output Resistance	1.5 kOhms min., 2.5 kOhms typ., 3.0 kOhms max.
Shock	Qualification tested to 150 g
Vibration	MIL-STD-202 Method 213 (150 g half sine 11 ms)
Weight	0.5 g [0.0176 oz]
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 100 °C [-67 °F to 212 °F]
Media Compatibility	Limited only to those media which will not attack polyetherimide, silicon, flourosilicone, silicone, EPDM, and neoprene seals.
UNSPSC Code	411123
UNSPSC Commodity	411121 Transducers
Comment	Lead free solder and no clean flux; wet/wet differential
Availability	Global
Series Name	26PC SMT