

# Model 82 UltraStable



**316L SS Pressure Sensor**  
**High Performance, 19 mm**  
**0-100 mV Output**  
**Absolute and Gage**  
**Low Pressure**

- ▶ Hydraulic Controls
- ▶ Process Control
- ▶ Oceanography
- ▶ Refrigeration/Compressors
- ▶ Pressure Transmitters
- ▶ Level Systems



## DESCRIPTION

The Model 82 is a 19 mm small profile, media compatible, piezoresistive silicon pressure sensor packaged in a 316L stainless steel housing. The Model 82 is designed for O-ring mounting. The sensing package utilizes silicone oil to transfer pressure from the 316L stainless steel diaphragm to the sensing element.

The Model 82 is designed for high performance, low pressure applications. A ceramic substrate is attached to the package that contains laser-trimmed resistors for temperature compensation and offset correction. An additional laser-trimmed resistor is included which can be used to adjust an external differential amplifier and provide span interchangeability to within  $\pm 1\%$ .

Sensors with threaded pressure fittings, weldable flush sensors and high pressure stainless steel sensors are also available. Please contact the factory for more information.

## FEATURES

- ▶ O-Ring Flush Mount
- ▶  $-20^{\circ}\text{C}$  to  $+85^{\circ}\text{C}$  Compensated Temperature Range
- ▶  $\pm 0.1\%$  Pressure Non-linearity
- ▶  $\pm 1.0\%$  Interchangeable Span (provided by gain set resistor)
- ▶ Solid State Reliability
- ▶ Low Power

## STANDARD RANGES

Range	psig	psia
0 to 5	Contact Factory	Contact Factory
0 to 15	●	●
0 to 30	●	●
0 to 50	●	●
0 to 100	●	●
0 to 300	●	●
0 to 500	●	●

## DIMENSIONS



