



89BSD

Digital Output

SPECIFICATIONS

- **Stainless Steel with O-Ring Seal**
- **Pressure/Temperature Read-Out**
- **Digital Output (24-bit $\Delta\Sigma$ ADC)**
- **ASIC Calibrated**
- **Absolute, Sealed Gage**
- **9mm Diameter**

The 89BSD is a 9mm diameter small profile, media compatible, piezoresistive silicon pressure sensor packaged in a 316L stainless steel housing. This low power 24-bit $\Delta\Sigma$ ADC digital output pressure sensor supports an I²C interface protocol and is designed for threaded O-ring mounting. A custom ASIC is used for temperature compensation and offset correction. The sensing package utilizes silicone oil to transfer pressure from the 316L stainless steel diaphragm to the sensing element. A flex cable allows the 89BSD to connect to a smaller connection terminal where size is of primary concern.

The 89BSD is designed for high performance, low pressure applications.

For a similar sensor with a plastic threaded fitting, refer to the LM pressure transducer

FEATURES

- Threaded/Weldable
- I²C Interface
- Low Power: <1μA
- Standby Power: <0.15μA
- Supply Voltage: 1.8 to 3.6V_{DC}

APPLICATIONS

- Level Controls
- Tank Level Measurement
- Corrosive Fluids and Gas Measurement Systems
- Sealed Systems
- Manifold Pressure Measurement
- Barometric Pressure Measurement
- Dive Computers

STANDARD RANGES

Range	BarA	BarS
0 to 006	•	•
0 to 012	•	•
0 to 018	•	•
0 to 028	•	•
0 to 030	•	•

Intermediate pressure ranges available, contact factory