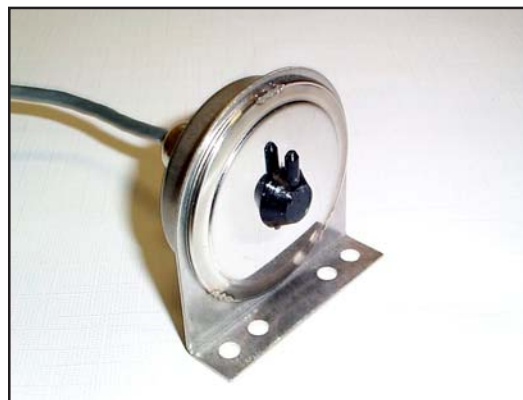


230-276 Barometric Pressure Sensor

The **Model 230-276 Barometric Pressure Sensor** is an extremely accurate and stable transducer based on the Setraceram sensing element. This glass fused ceramic capacitive sensing capsule is the heart of this environmental pressure transducer because of its inherent thermal stability, low hysteresis and fundamentally simple design. The custom Application Specific Integrated Circuit (ASIC) works hand-in-hand with the Setraceram sensor to achieve long term stability and high accuracy. This circuit also allows the 230-276 to operate with as little as 5.0 Vdc excitation (optional) for remote battery or solar powered applications. The standard unit has a convenient mounting bracket and simple 1/8" tube fitting for quick installation.



Model 230-276 Barometric Pressure Transducer

Specifications

Range: 600 to 1100 mb, maximum pressure 20 psia
 800 to 1100 mb, maximum pressure 20 psia
 Accuracy: < $\pm 0.25\%$ FS RSS of non-linearity, hysteresis, and non-repeatability
 Resolution: Infinite, limited only by output noise level (0.005%FS)
 Thermal effects: < 1%, zero; < 1% span, 30° to 130°F (0° to 55°C)
 Long Term Stability: < $\pm 0.25\%$ FS over 6 months at 70°F
 Time Constant: < 10 milliseconds to reach 90% final output with step function pressure input
 Operating temperature: 0 to 175°F (-20 to 80°C)
 Vibration: 2 g from 5 Hz to 500 Hz
 Acceleration: 10 g maximum
 Shock: 50 g operating, 1/2 sine 10 ms
 Pressure fitting: 1/8" tube fitting
 Electrical connection: 2 foot multiconductor cable
 Excitation power: 12 Vdc standard @ 25 mA
 Output: 0.1 to 5.1 Vdc
 Output impedance: 5 ohms
 Output noise: < 200 microvolts RMS (0 Hz to 100 Hz)
 Size: 2.08" W x 0.87" D x 2.08" H
 Weight/shipping: 0.5 lbs/1.5 lbs

Ordering Information

230-276-8	Barometric Pressure Sensor, 800-1100 mb range
230-276-6	Barometric Pressure Sensor, 600-1100 mb range
330-0524	Cable, 5-conductor, 24 AWG