

Barometric Pressure

PTB110

The PTB110 is designed for accurate barometric pressure measurements over a wide temperature range.

The PTB110 uses a silicon capacitive absolute pressure sensor.

Accuracy and Stability

The PTB110 features excellent long-term stability which minimises the need for field adjustment in many applications.

Applications

The PTB110 is ideal for data logger applications as it has low power consumption.

Standard on MEA Logging Systems

The 800 to 1060hPa version of the PTB110 is the standard barometric pressure sensor used on MEA's Automatic Weather Stations, Wind Systems, and Thermal Stratification systems. The sensor has demonstrated its reliability and accuracy in these applications over many years.

Features & Benefits

- Accuracy $\pm 0.3\text{hPa}$ at $+20^\circ\text{C}$
- Long-term stability
- Choice of pressure ranges
- Choice of output voltages
- Low power consumption
- DIN rail mountable
- NIST traceable

**Specifications for Barometric Pressure Sensor (PTB110)**

Pressure range	800 to 1060hPa (four other ranges available)
Operating temperature range	-40 to $+60^\circ\text{C}$
Accuracy at $+20^\circ\text{C}$	$\pm 0.3\text{hPa}$ ($\pm 1.5\text{hPa}$ from -40 to $+60^\circ\text{C}$)
Supply voltage	10 to 30VDC
Current consumption	$< 4\text{mA}$
Output voltage	0 to $+5\text{VDC}$ (0 to $+2.5\text{VDC}$ available)
Response time	500ms
Dimensions	97mm (H) x 68mm (W) x 28mm (D)
Weight	90gm