

HPB Precision Barometer

The HPD series barometers are designed for a wide pressure and temperature range. This precision barometer offers outstanding value to users requiring accurate and stable barometric measurements in real-world conditions.

The HPB uses proven silicon sensor technology with microprocessor-based signal compensation, eliminating the need to insulate or temperature-regulate the barometer. The HPB has a pressure range of 500 to 1200 hPa.

The HPB offers excellent accuracy over the full temperature range of -40°C to +85°C. Two models are available offering $\pm 0.4^\circ\text{C}$ and $\pm 0.8^\circ\text{C}$.

Manufactured to ISO9001 and US Military standards for shock and vibration.



Ordering Information

- HPB100WG Precision barometer with $\pm 0.4^\circ\text{C}$ and brass barbed pressure connector and TTL to RS232 converter.
- HPB200X Precision barometer with $\pm 0.8^\circ\text{C}$ and brass swagelok pressure connector and TTL output

Technical Specifications

- Pressure range: 500 to 1200 hPa
Operating temp: -40 to +85°C
Storage temp: -55 to +90°C
Humidity range: Non-condensing
Supply voltage: 6 to 26 VDC
Current: 30-225mW depending on configuration
Output: TTL, RS232, or SDI-12
Baud rate: 1200,2400,4800,9600,14400,19200, 28800
- Pressure units: hPa, mbar, kPa, inHg, mmHg, torr, psai , atm, bar, cmwc, ftwc, inwc, kg/cm2, etc.
- Resolution: 0.01 hPa
Response: Max. 17ms
Total accuracy: HPB100 ± 0 .
HPB200 ± 0
- Stability: ± 0.25 max. hPa/year
Sample rate: User assignable : 8.33ms to 51.2min.
Max pressure: 5000 hPa absolute
Connector: 4 different pressure connectors available
Housing: Epoxy painted aluminum
Weight: 142 grams
Quality: ISO9001
Mechanical shock MIL-STD-883D
Vibration MIL-STD-883D

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