



Barometric Pressure Sensor (BP10 Series)

Features

- Temperature compensated
- Solid state sensor element
- High quality electronics
- Frequency output
- Low power operation

Applications

- General meteorology
- Applied meteorology
- Environmental studies
- Educational Environments

The BP10 Series Barometric Pressure Sensors are designed to measure atmospheric pressure in the range 750 to 1050 hecto Pascals. The sensors use an integrated circuit sensor element, which has been laser trimmed for accuracy.

Housing the sensing element in a nylon package gives excellent corrosion resistance and isolation from external stresses.

High quality electronics provide a frequency output which is immune to noise and cable losses.

A two point calibration against a high quality standard (which is regularly recalibrated) ensures accuracy over the normal operating range.



Model:

BP10

Output (750 mBar)

15.25 Hz

Output (1050 mBar)

19.75 Hz

Cable Type

3-core
shielded

Cable Length

0.75 metre

Envirodata Environmental Monitoring & Management

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Specifications

Sensing Element:

Solid state silicon strain gauge.

Measurement Units:

hectoPascals (hPa)

Operating range:

750 to 1050 hPa

Resolution:

1 hPa

Accuracy:

±3 hPa (note1)

Temperature drift:

Maximum compensated error ±6 hPa (over 70°C temp. range).
Typically ±1hPa.

Calibration method:

Two point calibration performed against a standard which is regularly checked against laboratory standards.

Reliability:

Typically five (5) years operation before possible overhaul.

Housing:

High impact Black PVC

Operating Conditions:

Temperature: -20°C to +70°C
Humidity: 0% to 100%

Sensor mounting:

The sensor should be housed in a suitable weather shield. It is not designed to be exposed to precipitation of any kind. Splash-proof if mounted upside down.

Supply Voltage:

5.5 to 7 Volts DC

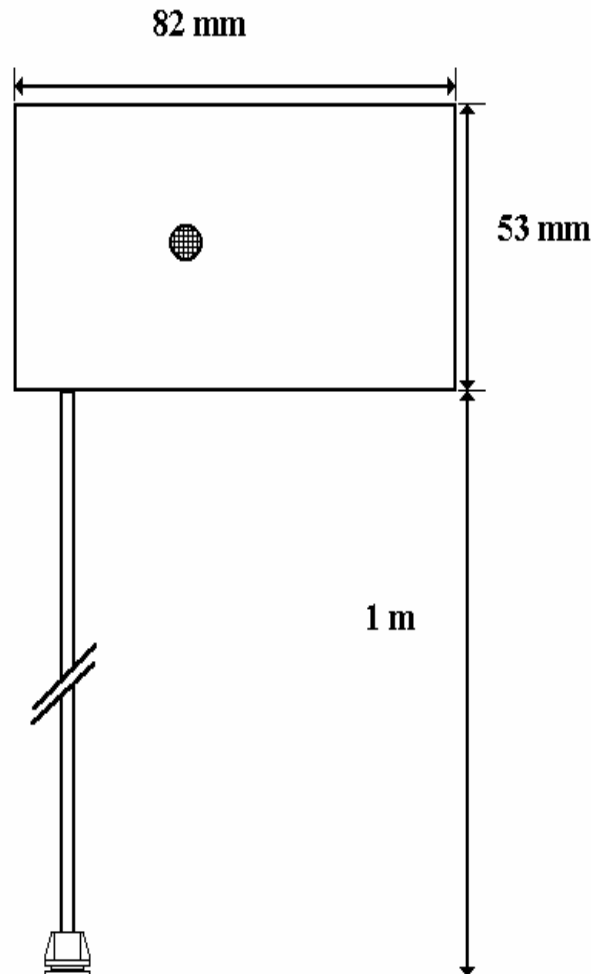
Current Drain:

<5.5 mA.

Output:

+5 Volt pulse

Dimensions (mm)

**Configuration:**

Model	BP10
Output (750mBar)	15.25Hz
Output (1050mBar)	19.75Hz
Cable Type:	3 core
Cable Length:	shielded 1m

Ordering Information:

BP10

Shipping Weight: 0.75

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