

MONITOR SENSORS

BP

μSMART Barometric Pressure Sensor

The **μSMART** barometric pressure sensor is designed to measure atmospheric pressure changes.

The sensor **Monibus** interface allows the user to modify the sensor operation through the built-in sensor menus. An offset for height above sea level can be applied through the menu system. The sensor incorporates a microprocessor to provide accurate, repeatable readings and to allow optional analogue outputs.

The robust mechanical design ensures a long operational life.

- Mechanical**
- Powder coated aluminium body
 - High durability cable

Specifications

Range: 600 ... 1100 hPa

Accuracy: ± 2%

Operational: -20°C to +60°C

- Output options:**
- **Monibus** serial data ASCII format
 - Voltage 0-1, 0-2.5 volts
 - 4-20mA (requires >12Vdc supply)
 - Frequency TTL pulse 2-10 Hz

Power Supply: 6-28 Vdc unregulated

Supply current: 1.2 mA active

0.5 mA economy mode

Sensor weight: 250 grams

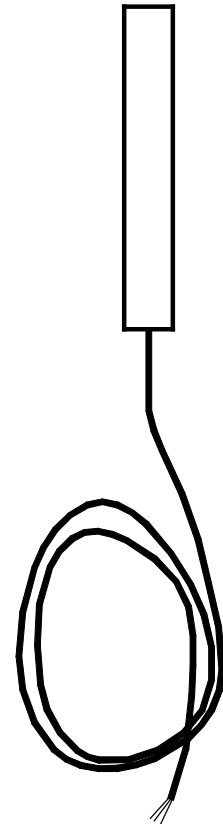
Dimensions: Overall height – 170 mm x 25 mm Ø

Mounting: 25 mm Ø

dwg no: MSM-06-0038

Cable Details: Standard product has 800mm of cable – other cable lengths may be ordered

Warranty: **12 months** – full details can be found in the Monitor Sensors standard warranty document
http://www.monitorsensors.com/docs/std_warranty.pdf



Order codes:

BP1	standard sensor	BP1-C	Hi/Low control
BP1-V1	0...1 volt output	BP1-CV1	Hi/Low control + 0...1 volt output
BP1-V2	0...2.5 volt output	BP1-CV2	Hi/Low control + 0...2.5 volt output
BP1-A4	4...20 mA output	BP1-CA4	Hi/Low control + 4...20 mA output
BP1-F	2 ... 10 Hz TTL		

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