

Barometric Pressure Sensor *standard*



Description

Very accurate and rugged sensor for the measurement of barometric pressure.

The atmospheric pressure deforms a sensing element. An electronic transducer converts the raw signal and provides a voltage linearly dependent on the barometric pressure.

In addition to the analog output a serial port permits the direct connection of the sensor to a PC.

Technical Data

Sensor

Sensing element	Aneroid sensor
Transducer	Electronical transducer with voltage output
Analog output	500..1100 hPa = 0..5 V, measurement range can be adapted by the user
Serial output	RS232 full duplex, 1200..38400 baud
Minimum load resistor	> 10 kOhm

Accuracy

Accuracy (serial output)	±0.2 hPa at 25 °C ±0.3 hPa at -50..+60 °C
Accuracy (analogue output)	±0.4 hPa at 25 °C and 500..1100 hPa output range ±0.9 hPa at -50..+60 °C and 500..1100 hPa output range

Power Supply

Supply voltage	7..30 VDC
Current consumption	2.8 mA with analogue output 7 mA with serial output
Warmup time	2 s

Casing

Material	Fiber-reinforced plastic
Protection class.....	IP 20
Dimensions	60 x 90 x 21 mm
Weight	0.044 kg

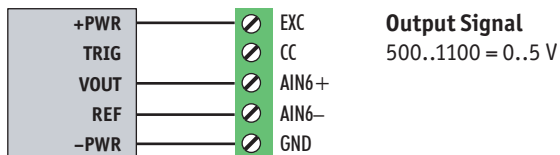
Electrical Connection

Cable	4 x 0.5 mm ²
Terminals.....	Open terminated wires

Wiring

white	(+) power supply
brown.....	Ground
green	Output

Connection to Data Logger blueberry COMPACT



Standard Setup

Input: **AIN6**
 Functions: **pBaro (hPa) = Voltage * 120 + 500**

Environmental Conditions

Operating temperature.....	-50..+60 °C
Relative humidity.....	0..100% non-condensing



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