

Barometric Pressure Sensor economy



Description

Simple and rugged sensor for the measurement of barometric pressure.

The atmospheric pressure deforms a piezo-electrical element. A transmitter transforms the raw signal and provides a voltage linearly dependent on the barometric pressure.

Technical Data

Sensor

Sensing element.....	Piezo cristal
Transducer.....	Electronical transducer with voltage output
Output	800..1100 mbar = 0..5 V
Minimum load resistor	> 10 kOhm

Accuracy

Typical accuracy	± 1.1 mbar at 25 °C
	± 2.3 mbar at -10..+60 °C
Maximum inaccuracy	± 1.5 mbar at 25 °C
	± 12 mbar at -10..+60 °C

Power Supply

Supply voltage	8..24 VDC
Current consumption	10 mA
Warm-up time.....	100 ms

Casing

Material.....	Plastic
Protection class	IP 54
Dimensions	65 x 70 x 37 mm
Weight	0.1 kg

Electrical Connection

Cable..... 3 x 0.5 mm²
 Terminals..... Open terminated wires

Wiring

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

Environmental Conditions

Operating temperature -40..+85 °C
 Relative humidity 0..100%

Characteristics for Data Logger wilog303/306

Please enter the following function when the sensor is used with wilog303 or wilog306 data loggers.

Example: Connection to analog Input f

pBaro : mean = 800 + 60 * f



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