0631

Wilmers Meßtechnik

Barometric Pressure Sensor *standard*

Description

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

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

In addition to the analog output a digital 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	600..1100 hPa = 0..5 V, range can be modified by the user
Digital output	RS232 / RS485 serial port, 9600 baud
Minimum load resistor	> 10 kOhm

Accuracy

Maximum inaccuracy	± 0.3 hPa at 20 °C ± 1 hPa at –50..+60 °C

Power Supply

Supply voltage	7..30 VDC
Current consumption	10 mA
Warmup time	2 s

Casing

Material	Plastic
Protection class	IP 54
Dimensions	120 x 120 x 60 mm
Weight	0.35 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 ..... –50..+60 °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 = 600 + 100 * f
```

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