



Barotransmitter (high-precision)

5002.1000X

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Description

5002.1000X is a high-precision Barometric Pressure Sensor offers unparalleled performance and flexibility and combines high accuracy and low power over a wide range of pressures and temperatures for atmospheric pressure measurement.

This Barometric Pressure Sensor provides a calibrated 0-5 VDC analogue output and its analogue current consumption is less than 3 mA. A special "sleep" mode further reduces current to about 1 μ A.

The compact size of the barometer allows easy placement in most standard instrument enclosures. A plug-in connector simplifies wiring.

Technical Specification

- Measuring range: 500 -1100 hPa
- Resolution: 0.01 hPa
- Accuracy: ± 0.2 hPa at ambient temperature 25 °C
- Long-term stability: ± 0.2 hPa / year
- Operating temperature: -40...+60°C
- Supply: 7...30 V DC, < 3 mA
- Output: 0...5 V DC
- This product complies with European CE requirements for the EMC Directive.
- Dimensions: approx. 100 x 60 x 22 mm
- Weight: approx. 140 g

Installation

The 5002 series barometers are designed to be installed indoors or inside equipment only. The barometers can also be mounted on a 35 mm wide standard DIN mounting rail by using a mounting foot and screw supplied with barometers.

The barometers should be installed vertically with the connectors downwards to prevent any ingress of condensated water. Horizontal installation can be used under conditions where no condensation can take place.

Note: 1 hPa = 1 mbar

Hectopascal (hPa) is the barometric pressure unit recommended by WMO and also accepted by ISO. See WMO Guide to Meteorological Instruments (1983) and ISO 1000:1992 (E) for further details.

Technical data are subject to change!