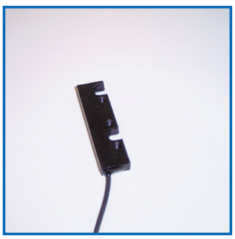
# Precision Temperature Gauge TEMP12-USB2

The precision temperature gauge TEMP12 is an electronic gauge for the temperature measurement.The device is based on a module system. A variety of ranges of application arises from it. These variants are different with respect to the port connected to a computer, the power supply unit, the number of available measuring channels and the design of casing.

The temperature gauge conceptionally was equipped for the highest precision and high long-term stability (at MTBF > 3000 hours). To be able to fulfill the high precision standards in the microelectronics production, specially aged NTC sensors will be built-in.
The burn-in process which is carried out at approx. 120 degrees Celsius under N2-atmosphere can be at ultra-precision sensors up to 10 years.

A fast data retrieval in second time makes it possible to select up to 16 measuring places per equipment.
Different sensor types can be chosen. There are surface, insertion, air and liquid sensors as well as custom-designed solutions.

All sensors are calibrated. Special models of sensors (e.g. for use in the vacuum) can also be manufactured. On request the sensors and gauge TEMP12 can be calibrated also at the DKD or PTB.

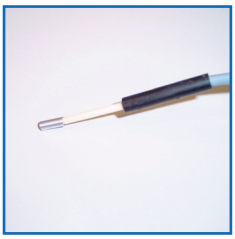


### Built-in Temperature Sensor

| Description | Meas. Range | Meas.Inaccuracy |
|---|---|---|
| Built-in Sensor Lith | 0...+60 °C | <10 mK |
| Built-in Sensor Mess | 0...+60 °C | <10 mK |

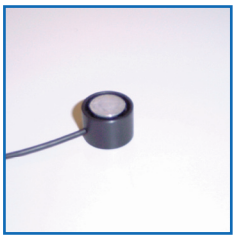
### Air Temperature Sensor

| Description | Meas. Range | Meas.Inaccuracy |
|---|---|---|
| Air Sensor Type A | 0...+60 °C | <50 mK |



### Insertion Temperature Sensor

| Description | Meas. Range | Meas.Inaccuracy |
|---|---|---|
| Precision Sensor 1 | 0...+60 °C | <10 mK |
| Insertion Sensor 2 | 0...+60 °C | <50 mK |



### Surface Temperature Sensor

| Description | Meas. Range | Meas.Inaccuracy |
|---|---|---|
| Surface Sensor 1 (Precision Sensor) | 0...+60 °C | <20 mK |
| Surface Sensor 2 | 0...+60 °C | <50 mK |

HIGH PRECISION MEASUREMENT SYSTEMS & ACCESSORIES

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