

## DTM3000 FOR PT100 / PT1000

### Cost-effective high-accuracy manual thermometer for Pt100 and Pt1000 probes controlled by a microcontroller

The electronic digital thermometer DTM3080 is distinguished above all by its accuracy, low power consumption, low weight, simple operation and attractive price. The DTM3080 unit has been designed for accurate measurements over a very large temperature range. The resolution of the unit is 0.1 °C over the whole temperature range. If the measurement moves out of range at the top or bottom end Err2 or Err1 is displayed respectively. The unit is switched on by actuating the on/off button. A segment check is then performed, during which all segments of the display are activated for a few seconds. Two additional buttons provide convenient measurement operations. Using the max/min button calls up the maximum and minimum measured values. If this button is actuated for approx. 3 sec., the previous values are deleted. The hold button enables the last measured value to be stored. If this button is actuated a second time the unit goes back into normal measurement operation mode. A serial interface is installed as standard. The interface cable and the evaluation software can be purchased as optional extras. A large number of Pt100 sensors are available for the DTM3080 digital thermometer for practically any application. For particular measurement problems we can also manufacture economical customised sensors to meet your requirements.

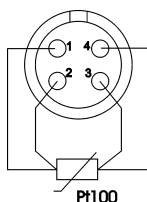


### TECHNICAL DATA

|                         |                                 |  |
|-------------------------|---------------------------------|--|
| Sensor:                 | resistance sensors Pt100/Pt1000 | adjusted by manufacturer   |
| Measurement range:      | Pt100 -200.. 830°C              | 4-wire connection  |
|                         | Pt1000 -50.. 400°C              | 3-wire connection  |
| Resolution:             | 0.1°C/1°C                       | can be configured via Software   |
| Measuring accuracy:     | ±0,2°C                          |  |
| Measurement rate:       | maximal 4/s                     | can be configured via Software   |
| Battery:                | 9V-Block 6F22                   |  |
| Battery operating time: | >500h at 1/s                    |  |
| Functions:              | Min/Max, Hold                   |  |
| Interface:              | USB                             | interface cable and evaluation software must be purchased as optional extras |
| Connector:              | Pt100 Binder 719 4-wire         |  |
|                         | Pt1000 Binder 719 3-wire        |  |
| Operating temp range:   | 0..60°C                         |  |

Order example for DTM3000: DTM3000-Pt100

Terminal assignment of the Pt100-sensor



Terminal assignment of the Pt1000-sensor

