

## Components and accessories

### Digital thermometer

#### Digital thermometer DTM 3000



Cost-effective high-accuracy manual thermometer for Pt100 and Pt1000 probes or thermocouples type K, T, J, S, B or N controlled by a microcontroller

The DTM 3000 electronic digital thermometer stands out primarily in terms of its very high accuracy, low power consumption, low weight and its simplicity of operation. It 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. 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. If a reading lies above the top value of the measurement range "Err2" is displayed, if it lies below the bottom end "Err1" is displayed.

A serial RS232 interface is installed as standard. A large number of Pt100/Pt1000 sensors and thermocouples are available for the DTM 3000 digital thermometer for several applications. For particular measurement problems we can also manufacture economical customised sensors to meet your requirements.

Thermocouples or resistance sensors are adjusted by manufacturer.

\* Interface cable/adaptor and evaluation software must be purchased as optional extras.

#### Input

- Thermocouple type K
- Thermocouple type T
- Thermocouple type J
- Thermocouple type S
- Thermocouple type B
- Thermocouple type N
- Pt100, 4 wire circuit
- Pt1000, 3 wire circuit
- on inquiry

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**Measuring range**

Type K -200°C ... +1370°C  
Type T -200°C ... +400°C  
Type J -200°C ... +1200°C  
Type S 0°C ... +1760°C  
Type B 300°C ... +1820°C  
Type N -270°C ... +1300°C  
Pt100 -200 ...+830°C  
Pt1000 -50 ...+400°C  
on inquiry

**Resolution**

0.1°C/1°C° \*

**Accuracy**

0.5% FS

**Operating temperature range**

0 °C to 60 °C

**Power supply**

9 Volt battery, 6F22

**Sampling rate**

maximal 4/s

**Battery operation time**

> 500h at 1/s

**Features**

Maximum. Minimum, Hold

**Connector**

miniature thermocouple socket  
Pt100 Binder 719 4-pole  
Pt1000 Binder 719 3-pole

**Interface**

RS232\*  
USB\*

**Cold-junction compensation**

internal