

DTM3000 FOR THERMOCOUPLES

Cost-effective high-accuracy manual thermometer for thermocouples NiCr-Ni, Fe-CuNi oder Cu-CuNi controlled by a microcontroller

The DTM3000 electronic digital thermometer stands out primarily in terms of its very high accuracy, low power consumption, low weight, simplicity of operation, and a low price. The DTM3000 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. 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 interface is installed as standard. The interface cable and the evaluation software can be purchased as optional extras. A large number of thermocouple sensors are available for the DTM3000 digital thermometer for practically any application. For particular measurement problems we can also manufacture economical customised sensors to meet your requirements.



TECHNICAL DATA

Input:	thermocouple types K, T, J, S, B, N	adjusted by manufacturer
Measurement range :	type K -200..1370°C	DTM3000-K
	type T -200.. 400°C	DTM3000-T
	type J -200..1200°C	DTM3000-J
	type S 0..1760°C	DTM3000-S
	type B 300..1820°C	DTM3000-B
	type N -260..1300°C	DTM3000-N
Resolution:	0.1°C/1°C°	can be configured via Software
Measuring accuracy:	0,5% FS	
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
Cold-junction compensation:	intern	
Connector socket:	Miniature thermocouple socket	
Operating temp range:	0..60°C	