Thermometer PCE-LTD 100

Thermometer with analysis software / Data storage for 17,280 measured values /
Measuring range from -80 °C (-112 °F) / Waterproof metal housing / USB connection /
Export of measurement data in various file formats / Replaceable battery

The thermometer has a measuring range of -80... +70 ° C. This makes the thermometer suitable for measuring tasks at particularly low temperatures. With the integrated measured value memory for 17280 measured data and the battery, the thermometer can carry out measurements independently and output them to a PC for later analysis. Thanks to its compact design and its metal housing with IP67 protection class, the thermometer can be integrated, for example, during the transport of medical products or other frozen products. This allows the cold chain to be monitored with the thermometer.

In order to read out the measurement data, the thermometer must be connected to a PC. From there, the thermometer is recognized as a mass data storage device. The software can now read out the thermometer in order to analyze the measurement data. The measurement data recorded by the thermometer can be exported as XLS, CSV, PDF, TXT and CIN for further processing. The graphic can also be exported as a JPG. At the same time, the thermometer can be set via the software. Among other things, the operator sets the start time, storage interval, the unit and the alarm limits. The thermometer can also be set so that it automatically outputs an exported file of the measurement data. The file formats PDF, DLG, CSV, XLS and TXT are available for selection. This has the particular advantage that the measurement data can be imported directly into a data management system.

- ▶ USB data logger for dry ice
- ▶ Data export directly as PDF
- ▶ Waterproof housing IP67
- ▶ Robust metal housing
- ▶ For temperatures between -80 ... +70 °C / -112 ... +158 °F
- ▶ Instantly replaceable battery

Specifications

Measuring range	**-80 ... +70 °C / -112 ... +158 °F**
Measuring accuracy	± 0.5 °C (-30 ... +70 °C / -22 ... +158 °F)
	± 1 °C (-80 ... -31 °C / -112 ... +23.8 °F)
Resolution	0.1 °C
Storage capacity	17,280 values
Sampling interval	1 s ... 24 h
Storage formats via software	PDF, TXT, CSV, XLS, JPG, BMP, CIN
Start mode	time setting
Stop modes	when a USB connection has been established, as soon as the memory is full, as soon as the set number of memory points has been reached
Operating conditions	-80 ... +70 °C / -112 ... +158 °F, non-condensing
Storage conditions	-40 ... +70 °C / -40 ... +158 °F (without battery)
Battery life	2 years @ 25 °C / 77 °F / 15 min storage interval
	30 days @ -80 ... -70 °C / -112 ... +158 °F / 15 min storage interval
Power supply	3.6 V 2/3 AA high temperature battery interchangeable (ER14335)
Protection class	IP67
Dimensions	Ø 18 mm + 115 mm / Ø 7" + 45"
Weight	ca. 95 g / 3.3 oz (without battery)

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