

Handheld electronic thermometers

TM6 and TM8-IR



TM6

Description

Very handy, robust temperature measuring instrument for simple, accurate and extremely fast measurements of surfaces, liquids, soft-, plastic media or in air and gases. The unit features max, min and „hold“ function, an RS232 interface as well as a memory for 16 measured values. In addition, the displayed measured value can be corrected, e.g. in order to compensate for sensor tolerances (1 point-cal-function).

Refer to page 480 for sensors TM5/TMD5.

Technical specifications

Thermocouple

Type K (NiCr-Ni)

Measuring range

-99.9 °C/+1,370 °C

Accuracy of measurement

±0.5 °C

(±1 digit) (instrument only)

Resolution

0.1 °C from -99.9 °C/+299.9 °C, otherwise 1 °C

Memory capacity

20 measured values

Plug connection

Miniature connector

Operating temperature range

Ambient: 0 °C/+50 °C

Display

1 line LCD



Housing

Impact resistant plastic (ABS)

Dimensions

W x H x D: 65 x 130 x 25 mm

Weight

240 g

Supply voltage

2 x 1.5 V AA, batteries

Battery life

Approx. 200 hours

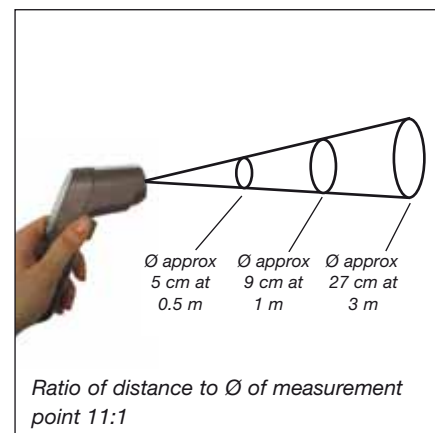
TM8-IR

Description

The TM8-IR temperature measuring instrument is a non-contact infrared thermometer with laser aim and large, backlit LCD display. Infrared thermometers are particularly suitable for measuring surface temperatures. The special benefit is the short response time (less than a second) without having to come in contact with the measured object. Therefore, the instrument is particularly suitable for moving (e.g. paper reels, tyres) or live (e.g. electrical assemblies, transformers) parts. Also for measurements in the food industry, because the medium is not polluted by a sensor. An additional NiCr-Ni thermocouple can be connected to the instrument.

The ratio of distance to measurement point is 11:1.

The measured object must always be larger than the diameter of the measurement point.



Technical specifications

Measuring range infrared

-33 °C/+500 °C

Measuring range thermocouple

-64 °C/+1,400 °C

Accuracy of measurement infrared

±2 °C or ±2 % of measured value (the greater value applies)

Spectral sensitivity

6/14 µm

Accuracy of measurement thermocouple

±1 °C or ±1 % of measured value (the greater value applies)

Operating temperature range

Ambient: 0/+50 °C

Storage/transport: -10/+50 °C

Response time

1 second

Ratio distance to Ø measurement point

11:1

Adjustable degree of emission

0.10 ~ 1,00 increments of 0,01

Battery life

Approx. 140 hours of continuous operation

Dimensions

W x H x D: 39 x 175 x 80 mm

Weight

180 g (with batteries)

DG: H	Part no.	Price €
TM6	70038	
TM8-IR	70039	