

THERMOMETER

PCE-IR 90



- » **Measuring range -40 ... 300°C / -40 ... 572°F**
- » **Infrared and penetration temperature sensor**
- » **Timer and stopwatch function**
- » **Charging station with micro USB cable**
- » **Bluetooth interface**
- » **Mobile temperature measuring device**
- » **Easy handling**

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The thermometer is used to check the temperature of food. In addition to the surface temperature via the infrared sensor, the thermometer can also be used to determine the core temperature via the fold-out resistance temperature sensor. Both temperature sensors on the thermometer have a measuring range of -40 ... 300°C / -40 ... 572°F.

In addition to the normal measured value display, the thermometer has a temperature display. This display on the thermometer signals whether the temperature of the food being measured is optimal. If the temperature is between 4 ... 65°C / 39.2 ... 149°F, this is indicated by a red LED. If the temperature is colder than 4°C / 39.2°F or warmer than 65°C / 149°F, this is indicated by a green LED. This function in the thermometer is particularly important in order to monitor the respective temperature chain. Therefore, the thermometer is used especially in the food industry.

The Bluetooth interface enables communication between the thermometer and a mobile Android and iOS device. With the free app for the thermometer, the measured values can be recorded with a mobile device and exported for later analysis. To charge the measuring device, the thermometer can be plugged into the charging station provided. If necessary, the thermometer can also be charged via a 5 V micro USB interface.

Specification

Type K temperature	
Measuring range	-40 ... +200 °C
Resolution	0,1 °C
Accuracy	±1 °C
Type K temperature	
Measuring range	200 ... 300 °C
Resolution	0,1 °C
Accuracy	±1.5 °C
Type K temperature	
Measuring range	-40 ... +392 °F
Resolution	0,1 °F
Accuracy	±1.8 °F
Type K temperature	
Measuring range	392 ... 572 °F
Resolution	0,1 °F
Accuracy	±4.5°F
Infrared temperature	
Measuring range	-40 ... 0 °C
Resolution	0,1 °C
Accuracy	±2.5°C
Infrared temperature	
Measuring range	0 ... 65 °C
Resolution	0,1 °C
Accuracy	±1 °C
Infrared temperature	
Measuring range	65 ... 300 °C
Resolution	0,1 °C
Accuracy	±1.5% f.s.
Infrared temperature	
Measuring range	-40 ... +32 °F
Resolution	0,1 °F
Accuracy	±4,5 °F
Infrared temperature	
Measuring range	32 ... 150 °F
Resolution	0,1 °F
Accuracy	±1.8°F
Infrared temperature	
Measuring range	149 ... 572 °F

General technical data	
Measuring functions	MAX, HOLD
Units	°C, °F
Display size	2 Inch
Interface	Bluetooth, Micro-USB
Response time	500 mS
Measurement spot	2:1
Emissivity	0,95
Dimensions	Sensor length: 100 mm
Menu language	English, English (GB)
Protection class (device)	IP20
Power supply	5 V DC / 1 A
(Rechargeable) battery	1 x 4,2 V internal , Lithium-ion battery
Capacity	1300 mAh
Operating conditions	0 ... 50 °C , 0 ... 85 % RH
Storage conditions	0 ... 50 °C , 0 ... 85 % RH
Dimensions (L x W x H)	176 x 55 x 40 mm
Weight	180 g

Resolution	0,1 °F
Accuracy	±1.5% f.s.