# TEMPERATURE METER

## PCE-WBGT 10

» **Measuring functions: MIN, MAX, HOLD, AVG**

» **Indoor or outdoor mode - selectable**

» **Data logger 8 MB**

» **WBGT alarm: adjustable, acoustic**

» **Real-time display**

» **Automatic switch-off**

» **Adjustable standby mode**

» **Convertible units ºC and ºF**

» **1.8 inch LCD display**

» **Rechargeable via USB-C cable**

The temperature meter is used to assess heat stress in working environments, sports facilities or industrial plants. It is used both indoors and outdoors to precisely measure climatic conditions and ensure the safety of people exposed to heat.

The measuring range of the device covers a large number of climate-relevant variables: The WBGT value can be recorded from 0 ... 50ºC / 32 ... 122ºF, the sphere temperature (TG) ranges from -20 ... 125ºC / -4 ... 257ºF, as does the air temperature (AIR). The dew point (DP) is measured between -20...60ºC / -4 ... 140ºF, the wet bulb temperature (WB) covers the same range. The device also records the relative humidity (RH%) in the range from 0 to 100%.

The temperature meter offers a range of practical functions that make everyday use particularly easy. In addition to the display of MIN, MAX, HOLD and AVG, it is possible to switch between indoor and outdoor mode. The integrated data logger with 8 MB memory records up to around 260,000 measured values, which can be easily transferred to a PC via USB-C. Suitable software is available for reading out and analyzing the data, with which measurement series can be clearly displayed and saved. The storage interval can be flexibly set from 0 seconds to 10 minutes.

An acoustic, adjustable WBGT alarm provides additional safety, while the real-time display, automatic switch-off and customizable standby mode ensure convenient operation.

## Specification

| Relative humidity | |
| --- | --- |
| Measurement range up to | 0 ... 20 % |
| Resolution | 1 % |
| Accuracy | ±5% @ 25°C |

| Relative humidity | |
| --- | --- |
| Measurement range up to | 20 ... 80 % |
| Resolution | 1 % |
| Accuracy | ±3 % |

| Relative humidity | |
| --- | --- |
| Measurement range up to | 80 ... 100 % |
| Resolution | 1 % |
| Accuracy | ±5% @ 25°C |

| Wet bulb temperature | |
| --- | --- |
| Measurement range up to | -20 ... 0 °C |
| Resolution | 0,1 °C |
| Accuracy | ±3 °C |

| Wet bulb temperature | |
| --- | --- |
| Measurement range up to | 0 ... 50 °C |
| Resolution | 0,1 °C |
| Accuracy | ±1.5 °C |

| Wet bulb temperature | |
| --- | --- |
| Measurement range up to | 50 ... 60 °C |
| Resolution | 0,1 °C |
| Accuracy | ±3 °C |

| WBGT | |
| --- | --- |
| Measurement range up to | 0 ... 50 °C |
| Resolution | 0,1 °C |
| Accuracy | ±0.3°C |

| Dew point | |
| --- | --- |
| Measurement range up to | -20 ... 0 °C |
| Resolution | 0,1 °C |
| Accuracy | ±3°C |

| Dew point | |
| --- | --- |
| Measurement range up to | 0 ... 50 °C |
| Resolution | 0,1 °C |
| Accuracy | ±1.5°C |

| Dew point | |
| --- | --- |
| Measurement range up to | 50 ... 60 °C |

| General technical data | |
| --- | --- |
| Measuring functions | MIN, MAX, HOLD, AVG |
| Units | °C, °F |
| Display type | LCD with backlight |
| Display size | 1,8 Inch |
| Storage medium | Internal memory |
| Storage capacity | 8 MB |
| Memory capacity (additional information) | 8 MB EEPROM for approx. 260,000 measured values, transferable to PC via USB-C only. |
| Storage interval from | 0 s |
| Storage interval to | 10 min. |
| Interface | USB-C |
| Warm-up time | 30 s |
| Operating time | 72 h |
| Automatic power-off from...to | 15 ... 360 min. |
| Automatic power-off can be deactivated | Yes |
| Alarm | Acoustic |
| Dimensions | Sensor ball: Ø 46 mm |
| Alarm settings | 0 ... 9999 °C |
| Menu language | English, English (GB) |
| Power supply | 5 V |
| (Rechargeable) battery | 1 x 3,7 V internal , Lithium-ion battery |
| Capacity | 2000 mAh |
| Operating conditions | 0 ... 50 °C , 0 ... 95 % RH |
| Storage conditions | -20 ... 60 °C , 0 ... 99 % RH |
| Dimensions ( L x W x H ) | 200 x 62 x 38 mm |
| Weight | 187 g |

| | |
|---|---|
| Resolution | 0,1 °C |
| Accuracy | ±3°C |
| **Temperature** | |
| Measurement range up to | -20 ... 0 °C |
| Resolution | 0,1 °C |
| Accuracy | ±1 °C |
| **Temperature** | |
| Measurement range up to | 0 ... 60 °C |
| Resolution | 0,1 °C |
| Accuracy | ±0.3 °C |
| **Temperature** | |
| Measurement range up to | 60 ... 125 °C |
| Resolution | 0,1 °C |
| Accuracy | ±1 °C |