



# User Manual

PCE-600 Digital Thermometer



User manuals in various languages (français, italiano, español, português, nederlands, türk, polski, русский, 中文) can be found by using our product search on: [www.pce-instruments.com](http://www.pce-instruments.com)

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## 1 Safety notes

Please read this manual carefully and completely before you use the device for the first time. The device may only be used by qualified personnel and repaired by PCE Instruments personnel. Damage or injuries caused by non-observance of the manual are excluded from our liability and not covered by our warranty.

- The device must only be used as described in this instruction manual. If used otherwise, this can cause dangerous situations for the user and damage to the meter.
- The instrument may only be used if the environmental conditions (temperature, relative humidity, ...) are within the ranges stated in the technical specifications. Do not expose the device to extreme temperatures, direct sunlight, extreme humidity or moisture.
- Do not expose the device to shocks or strong vibrations.
- The case should only be opened by qualified PCE Instruments personnel.
- Never use the instrument when your hands are wet.
- You must not make any technical changes to the device.
- The appliance should only be cleaned with a damp cloth. Use only pH-neutral cleaner, no abrasives or solvents.
- The device must only be used with accessories from PCE Instruments or equivalent.
- Before each use, inspect the case for visible damage. If any damage is visible, do not use the device.
- Do not use the instrument in explosive atmospheres.
- The measurement range as stated in the specifications must not be exceeded under any circumstances.
- Non-observance of the safety notes can cause damage to the device and injuries to the user.

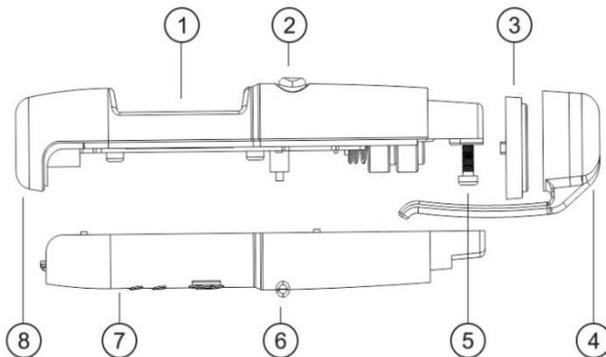
We do not assume liability for printing errors or any other mistakes in this manual.

We expressly point to our general guarantee terms which can be found in our general terms of business.

If you have any questions please contact PCE Instruments. The contact details can be found at the end of this manual.

## 2 Device description

This digital infrared thermometer quickly, easily and accurately provides temperature readings, for instance in production plants, heating and ventilation systems as well as in food manufacturing and storage.



- |   |               |   |                  |
|---|---------------|---|------------------|
| 1 | LCD           | 5 | Screw            |
| 2 | Measuring key | 6 | Toggle key °C/°F |
| 3 | Ring          | 7 | Device cover     |
| 4 | Pen cap       | 8 | Infrared sensor  |

## 3 Technical specifications

Temperature measurement range	-35 ... 260°C / -31 ... 500°F
Resolution	0.1°C / 0.18°F
Accuracy	± (2% of rdg. + 2°C / 3.6°F)
Repeatability	± 1% or ± 1°C / 1.8°F
Emissivity	0.95
Optical resolution	1: 1
Response time	About 1 ms
Wavelength range	8 ... 14 µm
Power supply	2 x 1.5V LR44 batteries
Operating conditions	0 ... 50°C / 32 ... 122°F
Storage conditions	-20 ... 60°C / -4 ... 140°F
Dimensions	18 x 90 mm / 0.7 x 3.5 in
Weight	About 20 g / < 1 lb

## 4 Operation

1. Target your object with the sensor of the thermometer.
2. Press and hold the Measuring key to measure the surface temperature. During the measurement, „SCAN“ will be displayed.
3. After releasing the Measuring key, the „HOLD“ icon will appear and the current reading will remain displayed on the LCD.
4. The meter will turn off automatically after 15 seconds of inactivity.

### Note

When there are substantial fluctuations in the environmental temperature, allow at least 30 minutes in a new environment for the meter to acclimatise.

## 5 Changing the batteries

When the low battery icon  appears, the batteries must be replaced by two new LR44 1.5 V batteries. To do so, loosen the screws on the pen cap, remove the pen cap as well as the ring and open the device cover to replace the old batteries. Observe correct polarity.

## 6 Warranty

You can read our warranty terms in our General Business Terms which you can find here: <https://www.pce-instruments.com/english/terms>.

## 7 Disposal

For the disposal of batteries in the EU, the 2006/66/EC directive of the European Parliament applies. Due to the contained pollutants, batteries must not be disposed of as household waste. They must be given to collection points designed for that purpose.

In order to comply with the EU directive 2012/19/EU we take our devices back. We either re-use them or give them to a recycling company which disposes of the devices in line with law.

For countries outside the EU, batteries and devices should be disposed of in accordance with your local waste regulations.

If you have any questions, please contact PCE Instruments.





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