



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

Last change: 4 September 2019
v1.0



Contents

| | | |
|----------|---------------------------------------|----------|
| 1 | Safety notes | 1 |
| 2 | Device description | 2 |
| 3 | Technical specifications | 2 |
| 4 | Operation | 2 |
| 5 | Changing the batteries | 3 |
| 6 | Warranty | 3 |
| 7 | Disposal | 3 |

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.

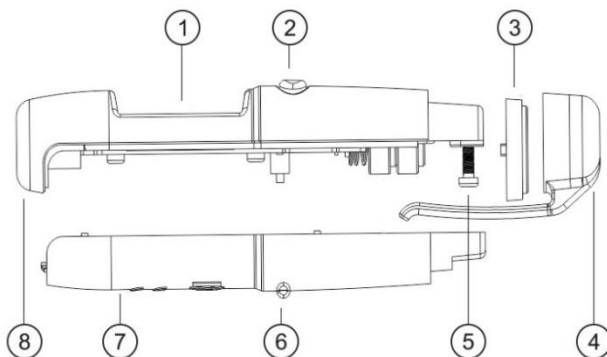
We do not assume liability for printing errors or any other mistakes in this manual.

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.





PCE Instruments contact information

Germany

PCE Deutschland GmbH
Im Langel 4
D-59872 Meschede
Deutschland
Tel.: +49 (0) 2903 976 99 0
Fax: +49 (0) 2903 976 99 29
info@pce-instruments.com
www.pce-instruments.com/deutsch

Germany

PCE Produktions- und
Entwicklungsgesellschaft mbH
Im Langel 26
D-59872 Meschede
Deutschland
Tel.: +49 (0) 2903 976 99 471
Fax: +49 (0) 2903 976 99 9971
info@pce-instruments.com
www.pce-instruments.com/deutsch

The Netherlands

PCE Brookhuis B.V.
Institutenweg 15
7521 PH Enschede
Nederland
Telefoon: +31 (0)53 737 01 92
info@pcebenelux.nl
www.pce-instruments.com/dutch

United States of America

PCE Americas Inc.
711 Commerce Way suite 8
Jupiter / Palm Beach
33458 FL
USA
Tel: +1 (561) 320-9162
Fax: +1 (561) 320-9176
info@pce-americas.com
www.pce-instruments.com/us

France

PCE Instruments France EURL
23, rue de Strasbourg
67250 Soultz-Sous-Forêts
France
Téléphone: +33 (0) 972 3537 17
Numéro de fax: +33 (0) 972 3537 18
info@pce-france.fr
www.pce-instruments.com/french

United Kingdom

PCE Instruments UK Ltd
Unit 11 Southpoint Business Park
Ensign Way, Southampton
Hampshire
United Kingdom, SO31 4RF
Tel: +44 (0) 2380 98703 0
Fax: +44 (0) 2380 98703 9
info@industrial-needs.com
www.pce-instruments.com/english

China

PCE (Beijing) Technology Co., Limited
1519 Room, 6 Building
Zhong Ang Times Plaza
No. 9 Mentougou Road, Tou Gou District
102300 Beijing, China
Tel: +86 (10) 8893 9660
info@pce-instruments.cn
www.pce-instruments.cn

Turkey

PCE Teknik Cihazları Ltd.Şti.
Halkalı Merkez Mah.
Pehlivan Sok. No.6/C
34303 Küçükçekmece - İstanbul
Türkiye
Tel: 0212 471 11 47
Faks: 0212 705 53 93
info@pce-cihazlari.com.tr
www.pce-instruments.com/turkish

Spain

PCE Ibérica S.L.
Calle Mayor, 53
02500 Tobarra (Albacete)
España
Tel. : +34 967 543 548
Fax: +34 967 543 542
info@pce-iberica.es
www.pce-instruments.com/espanol

Italy

PCE Italia s.r.l.
Via Pesciatina 878 / B-Interno 6
55010 Loc. Gragnano
Capannori (Lucca)
Italia
Telefono: +39 0583 975 114
Fax: +39 0583 974 824
info@pce-italia.it
www.pce-instruments.com/italiano

Hong Kong

PCE Instruments HK Ltd.
Unit J, 21/F., COS Centre
56 Tsun Yip Street
Kwun Tong
Kowloon, Hong Kong
Tel: +852-301-84912
jyi@pce-instruments.com
www.pce-instruments.cn