



PCE Instruments PCE-HT 112 Data Logger User Manual

[Home](#) » [PCE Instruments](#) » PCE Instruments PCE-HT 112 Data Logger User Manual 

PCE Instruments PCE-HT 112 Data Logger



Contents

- 1 Safety notes
- 2 Device description
 - 2.1 Front page
 - 2.2 Backside
 - 2.3 Display
- 3 Technical specifications
 - 3.1 Technical data PCE-HT 112
 - 3.2 Technical data PCE-HT 114
- 4 Operating instructions
 - 4.1 Switch on the device
 - 4.2 Switch off the device
 - 4.3 Switch on the display
 - 4.4 Switch off the display
 - 4.5 Switching the time / date
 - 4.6 Start data recording
 - 4.7 Stop data recording
 - 4.8 Display minimum, maximum and average measured value
 - 4.9 Deactivate the audible alarm
 - 4.10 Set markers
 - 4.11 Read out data
- 5 Hints
 - 5.1 External sensor
 - 5.2 Battery
- 6 Contact
- 7 Disposal
- 8 CUSTOMER SUPPORT
- 9 Documents / Resources
 - 9.1 References
- 10 Related Posts

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. 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. Do not expose the device to extreme temperatures, direct sunlight, extreme humidity or moisture.
- Do not expose the device to shocks or strong
- The case should only be opened by qualified PCE Instruments
- Never use the instrument when your hands are
- You must not make any technical changes to the
- The appliance should only be cleaned with a damp cloth. Use only pH-neutral cleaner, no abrasives or
- The device must only be used with accessories from PCE Instruments or
- Before each use, inspect the case for visible damage. If any damage is visible, do not use the
- Do not use the instrument in explosive

- The measurement range as stated in the specifications must not be exceeded under any
- Non-observance of the safety notes can cause damage to the device and injuries to the

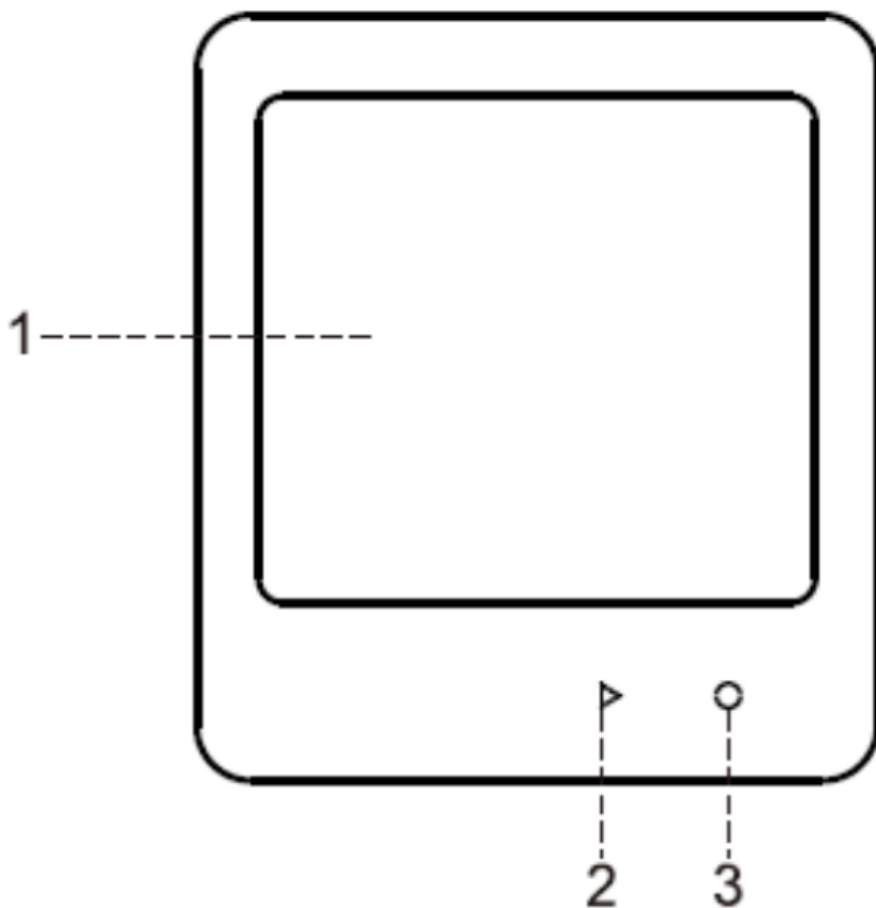
We do not assume liability for printing errors or any other mistakes in this manual.

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.

Device description

Front page



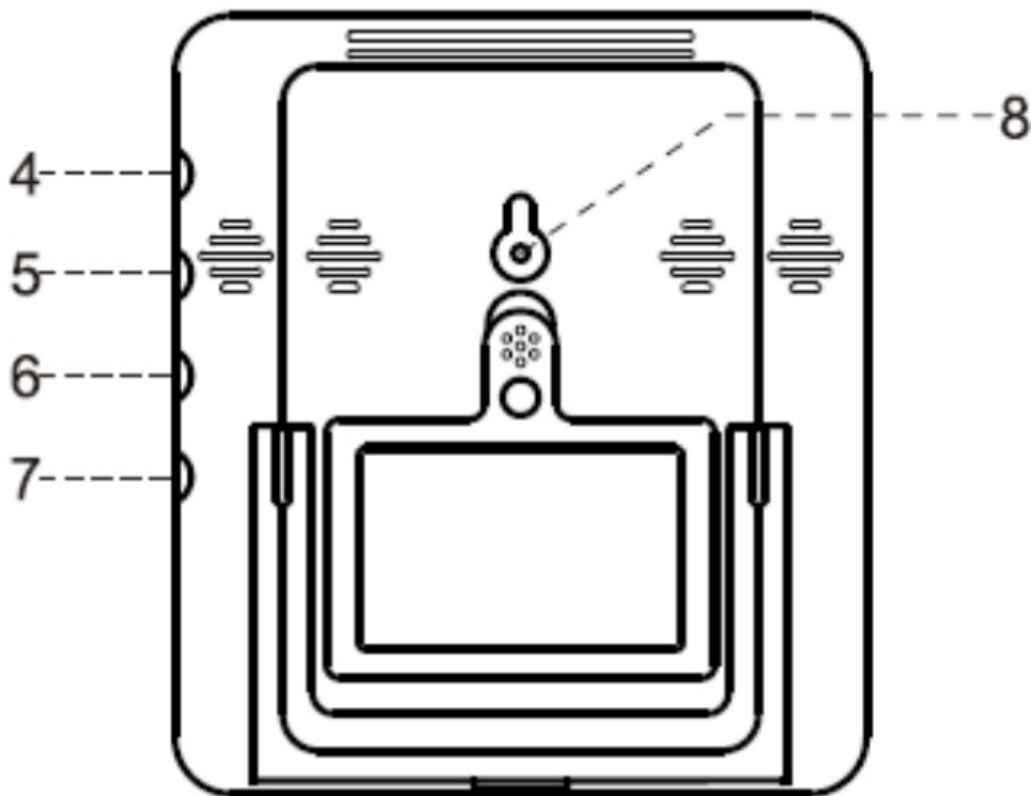
1. LC display
2. Start/stop key / display time
3. Switch display on/off / show data / mark

Backside

4. External sensor connection 1
5. External sensor connection 2
6. External sensor connection 3

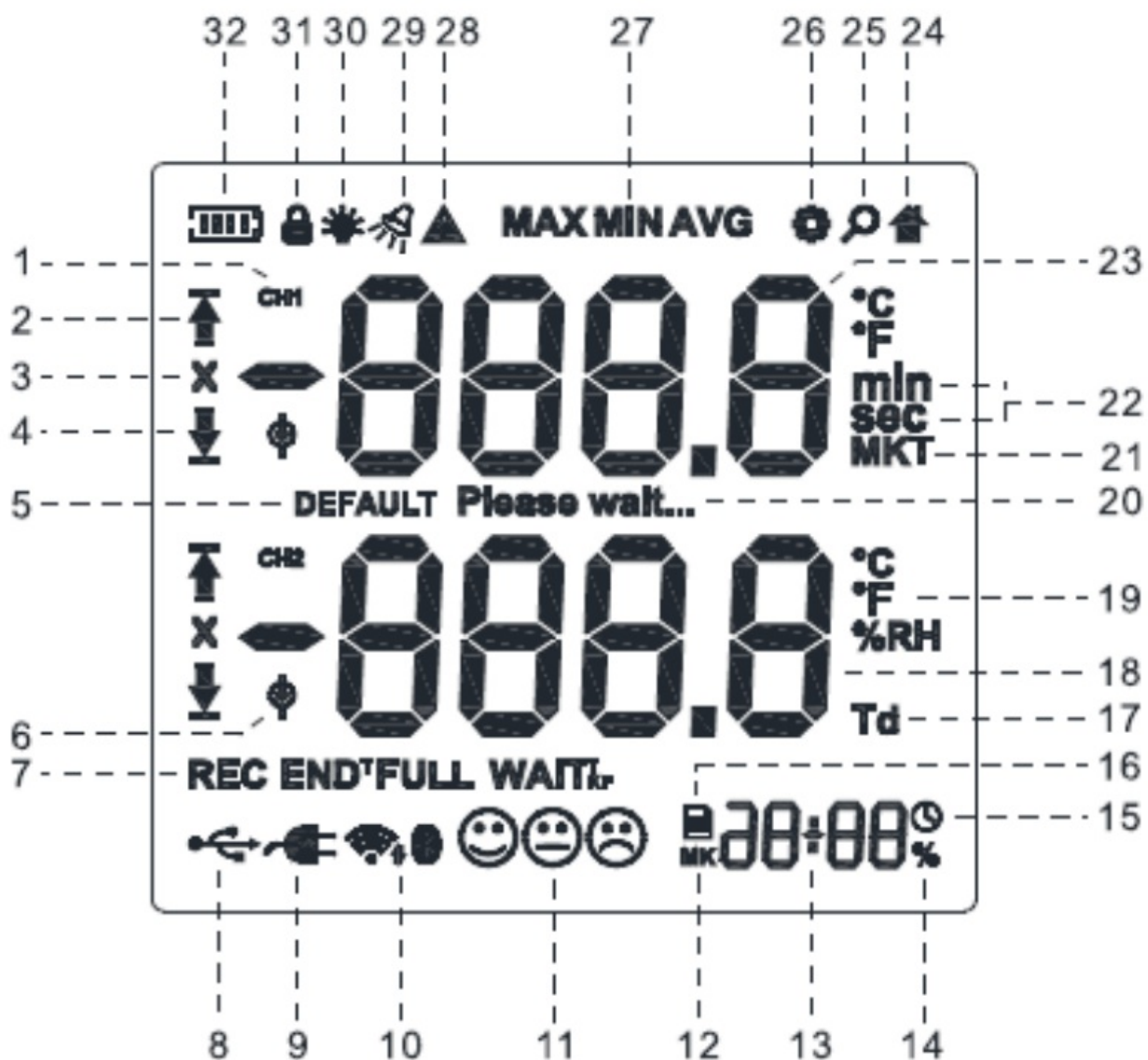
7. External sensor connection 4

8. Reset key / mounting tab



Note: The connections for external sensors may vary depending on the model.

Display



1. Channel number
2. Alarm exceeded
3. Alarm display
4. Alarm underrun
5. Factory reset
6. External sensor connected
7. Recording
8. USB connected
9. Data logger is being charged
10. Radio connection active (depending on model)
11. Air quality indicator
12. Marker
13. Time
14. Percentage symbol
15. Clock symbol

16. Memory symbol
17. Td: dew point
18. Lower measured value display
19. Temperature or humidity symbol
20. Waiting symbol
21. MKT: mean kinetic temperature¹
22. Time unit
23. Upper measured value display
24. House symbol
25. Display symbol
26. Settings symbol
27. MIN / MAX / average display
28. Warning symbol
29. Buzzer symbol
30. Backlight
31. Keys locked
32. Battery status display



Note: Certain icons may or may not be displayed depending on the model.

1. The “mean kinetic temperature” is a simplified way to determine the overall influence of temperature fluctuations during the storage or transport of pharmaceuticals. The MKT can be regarded as an isothermal storage temperature that simulates the non-isothermal effects of changes in the storage temperature. Source: MHRA GDP

Technical specifications

Technical data PCE-HT 112

Parameters	Temperature	Relative humidity
Measurement range	-30 ... 65 °C / -22 ... 149 °F (internal) -40 ... 125 °C / -40 ... 257 °F (external)	0 ... 100 % RH (internal) 0 ... 100 % RH (external)
Accuracy	±0.3 °C / 0.54 °F (-10 ... 65 °C / 14 ... 149 °F) ±0.5 °C / 0.9 °F (remaining range)	±3 % (10 % ... 90 %) ±4 % (remaining range)
Resolution	0.1 °C / 0.18 °F	0.1 % RH

Response time	15 min (internal) 5 min (external)
Memory	25920 measured values
Storage rates	30 s, 60 s, 2 min, 5 min, 10 min, 15 min, 20 min, 25 min, 30 min, 1 h or individually adjustable
Measuring interval / display refresh rate	5 s
Alarm	adjustable audible alarm
Interface	USB
Power supply	3 x 1.5 V AAA batteries 5 V USB
Battery life	approx. 1 year (without backlight / without alarm)
Operating conditions	-30 ... 65 °C / -22 ... 149 °F
Storage conditions	-30 ... 65 °C / -22 ... 149 °F (without battery)
Dimensions	96 x 108 x 20 mm / 3.8 x 4.3 x 0.8 in
Weight	120 g
Protection class	IP20

Scope of delivery PCE-HT 112

1 x data logger PCE-HT112
 3 x 1.5 V AAA battery
 1 x fixing set (dowel & screw)
 1 x micro USB cable
 1 x software on CD

1 x user manual

Accessories

PROBE-PCE-HT 11X external probe

Technical data PCE-HT 114

Parameters	Temperature	Relative humidity
Measurement range	-40 ... 125 °C / -40 ... 257 °F (external)	0 ... 100 % RH (external)
Accuracy	±0.3 °C / 0.54 °F (-10 ... 65 °C / 14 ... 149 °F) ±0.5 °C / 0.9 °F (remaining range)	±3 % (10 % ... 90 %) ±4 % (remaining range)
Resolution	0.1 °C / 0.18°F	0.1 % RH
Response time	5 min	
Memory	25920 measured values	
Storage rates	30 s, 60 s, 2 min, 5 min, 10 min, 15 min, 20 min, 25 min, 30 min, 1 h or individually adjustable	
Measuring interval / display refresh rate	5 s	
Alarm	adjustable audible alarm	
Interface	USB	
Power supply	3 x 1.5 V AAA batteries 5 V USB	

Battery life	approx. 1 year (without backlight / without alarm)
Operating conditions	-30 ... 65 °C / -22 ... 149 °F
Storage conditions	-30 ... 65 °C / -22 ... 149 °F (without battery)
Dimensions	96 x 108 x 20 mm / 3.8 x 4.3 x 0.8 in
Weight	120 g / <1 lb
Protection class	IP20


Scope of delivery PCE-HT 114

1 x refrigerator thermo hygrometer PCE-HT 114
 1 x external sensor
 3 x 1.5 V AAA battery
 1 x fixing set (dowel & screw)
 1 x micro USB cable
 1 x software on CD
 1 x user manual

Accessories

PROBE-PCE-HT 11X

Operating instructions

If no key is pressed within 15 seconds, the automatic key lock is activated. Press the  key for three seconds to make operation possible again.


Switch on the device

The data logger switches on as soon as batteries are inserted into the device.


Switch off the device

The data logger is permanently switched on and switches off as soon as the batteries are no longer sufficiently charged to ensure proper operation.

Switch on the display

Press the  key for three seconds and the display switches on.

Switch off the display

Press the  key for three seconds and the display switches off.




Note: The display cannot be turned off when it shows REC or MK.


Switching the time / date

Press the  key to switch between date, time and marker view.


Start data recording


Press the  key for three seconds to start data recording.

Stop data recording

If the software has been set to stop recording, press the  key for three seconds to stop recording. Furthermore, recording stops when the memory is full or the batteries are no longer sufficiently charged to ensure proper operation.

Display minimum, maximum and average measured value



As soon as one or more measured values have been saved to the memory of the data logger, it is possible to display the MIN, MAX and average measured values by pressing the  key.

If no measured values are recorded, the  key can be used to display the upper and lower alarm limits.

Deactivate the audible alarm

As soon as an alarm is triggered and the meter beeps, the alarm can be acknowledged by pressing one of the two keys.

Set markers

Once the meter is in recording mode, you can switch to marker view by pressing the  key. To set a marker, press the  key for three seconds to save a marker in the current recording. A maximum of three markers can be set.

Read out data

To read out data from the data logger, connect the measuring instrument to the PC and start the software. When the instrument is connected to the computer, the USB icon appears on the display\

Hints

External sensor

If the external sensor was not recognized, it may have been deactivated in the software. First activate the external sensor in the software.

Battery

When the battery icon flashes or the display shows OFF, this indicates that the batteries are low and need to be replaced.

Contact

If you have any questions, suggestions or technical problems, please do not hesitate to contact us. You will find the relevant contact information at the end of this user manual.

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



CUSTOMER SUPPORT



product search on: www.pce-instruments.com

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/



Documents / Resources

	<p>PCE Instruments PCE-HT 112 Data Logger [pdf] User Manual PCE-HT 112 Data Logger, PCE-HT 112, Data Logger, Logger</p>
--	---

References

- France.fr : Actualités, destinations et infos du tourisme en France
- iberica.es
- instruments.cn
- [Make an offer on the domain instruments.co.uk - Domains.co.uk](http://domains.co.uk)
- [Computer Instruments | Home](http://ci.computerinstruments.com)
- [Discover Italy: Official Tourism Website - Italia.it](http://italia.it)
- [PCE Instruments PCE-HT 112 Data Logger](#)
- [Industrial Measurement Products and Solutions | PCE Instruments](#)
- [PCE Deutschland GmbH Prüfgeräte vom Hersteller | PCE Instruments](#)
- [PCE Brookhuis B.V. | PCE Instruments](#)
- [PCE Americas Inc. : Test Instruments | PCE Instruments](#)

-  [PCE Iberica S.L. Instrumentación | PCE Instruments](#)
-  [PCE Instruments France | PCE Instruments](#)
-  [PCE Italia s.r.l. / Strumenti di Misura | PCE Instruments](#)
-  [PCE Teknik Cihazlar Paz. Tic. Ltd.Şti. | PCE Instruments](#)
-  [PCE Americas Inc. : Test Instruments | PCE Instruments](#)
-  [PCE Americas Inc. : Test Instruments | PCE Instruments](#)