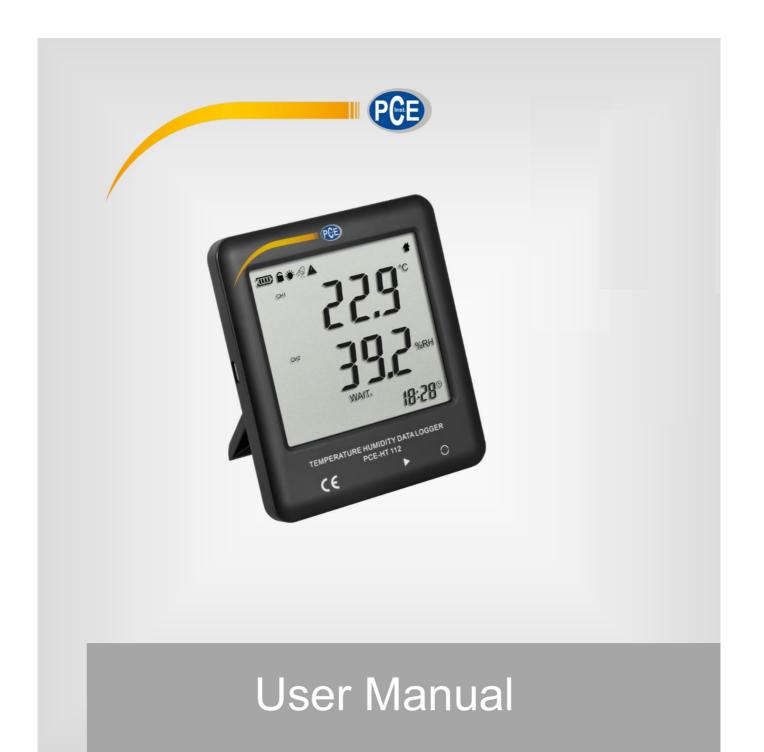


PCE-HT 114 Temperature and Humidity Data Logger User Manual

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PCE-HT 114 Temperature and Humidity Data Logger User Manual



PCE-HT 112 & PCE-HT 114 Data Logger

User manuals

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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.

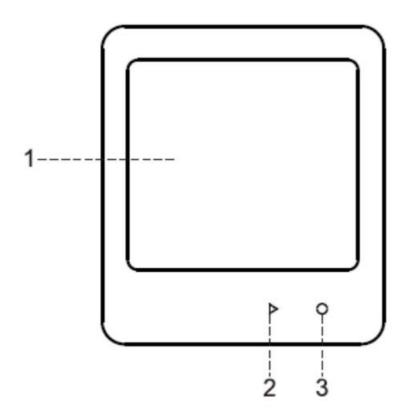
Device description

2.1 Front page

1. : LC display

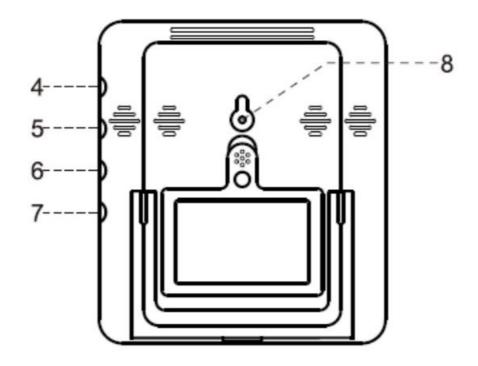
2. : Start/stop key / display time

3. : Switch display on/off / show data / mark



2.2 Backside

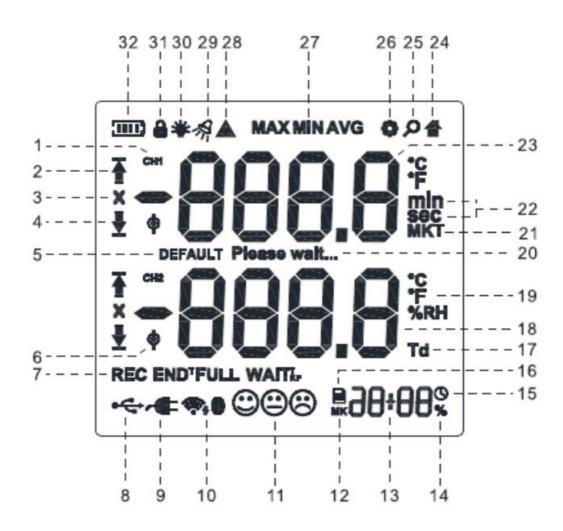
- 4: External sensor connection 1
- 5: External sensor connection 2
- 6: External sensor connection 3
- 7: External sensor connection 4
- 8: Reset key / mounting tab





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

2.3 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

3.1 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	

3.1.1 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

3.1.2 Accessories

PROBE-PCE-HT 11X external probe

3.2 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		

3.2.1 Scope of delivery PCE-HT 114

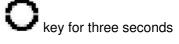
- 1 x refrigerator thermo hygrometer PCE-HT 114
- 1 x external sensor
- 3 x 1.5 V AAA battery
- 1 x fixing set (dowel & screw)
- 1 x micro USB cable
- 1 x software on CD
- 1 x user manual

3.2.2 Accessories

PROBE-PCE-HT 11X external probe

Operating instructions

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



4.1 Switch on the device

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

4.2 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.

4.3 Switch on the display

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

4.4 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.

4.5 Switching the time / date

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

4.6 Start data recording

Press the key for three seconds to start data recording.

4.7 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.

4.8 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

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

4.9 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

4.10 Set markers

Once the meter is in recording mode, you can switch to marker view by pressing the key. To set a market

press the key for three seconds to save a marker in the current recording. A maximum of three markers can be set.

4.11 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

5.1 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.

5.2 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.





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Documents / Resources



PCE PCE-HT 114 Temperature and Humidity Data Logger [pdf] User Manual PCE-HT 112, PCE-HT 114, Temperature and Humidity Data Logger, PCE-HT 114 Temperature and Humidity Data Logger, Humidity Data Logger, Data Logger

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