



User Manual

Hygrometer PCE-HT 50



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

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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 Specifications

Technical Specification for hygrometer PCE-HT 50			
Measurement function	Measurement range	Resolution	Accuracy
Air temperature	-20 ... 60 °C	0.1 °C	±1 °C
Air humidity	20 ... 99 % RH	1 % RH	±3 % (50 ... 80 % RH) ±5 % (remaining range)
Temperature (external)	-50 ... 100 °C	0.1 °C	±1 °C
Displayable units		°C / °F	
Additional display		Date, time, comfort level	
Power supply		2 x 1.5 V AAA battery	
Operating conditions		-20 ... 60 °C / max. 90 % RH	
Storage conditions		-40 ... 60 °C / max. 90 % RH	
Dimensions		117 x 95 x 23 mm	
Dimensions external temperature sensor		Ø 4 x 25 mm Cable length: approx. 140 cm	
Weight		approx. 185 g incl. batteries	

2.1 Delivery contents

1 x hygrometer PCE-HT 50
 2 x 1.5 V AAA battery
 1 x user manual

3 Operation

3.1 Control panel



1. Display
2. External temperature sensor
3. DOWN/MIN key
4. UP/MAX key
5. MODE key
6. Temperature unit key

4 Getting started

Inserting the batteries

- Remove the battery cover by pulling it downwards. Insert the batteries into the battery compartment. Make sure the polarity is correct.
- Place the battery cover back on.

The display now shows the internal temperature, the temperature of the external temperature sensor, the date and time.

4.1 Setting the date/time

Press and hold the **MODE key** until you hear a beep sound. The date display starts flashing.

- Press the **MIN** or **MAX key** to select the desired date format (day/month/year or year/month/day).
- Press the **MODE key** to select the day and set it with the **UP** and **DOWN keys**.
- Press the **MODE key** again to select the month and set it using the **UP and DOWN keys**.
- Press the **MODE key** again to select the year and set it using the **UP and DOWN keys**.
- Press the **MODE key**. The hour display flashes. Set it with the **UP and DOWN keys**.
- Press the **MODE key**. The minute display flashes. Set it with the **UP and DOWN keys**.

You can exit settings mode with the **temperature unit key**.



5 Functions

5.1 Humidity

By pressing the **MODE key** once, you can switch between the display of the temperature of the external sensor and of the humidity inside.

5.2 Temperature unit

Press the **temperature unit key** to change the unit in which the temperature is displayed.

5.3 Min/Max function

- Press the **MIN key** to display the lowest measured temperature.
- Press the **MAX key** to display the highest measured temperature.
- Press and hold the **MIN key** for 3 seconds to reset the lowest measured temperature.
- Press and hold the **MAX key** for 3 seconds to reset the highest measured temperature.

5.4 Wake-up function

To set an alarm time, press and hold the **MODE key** until you hear a beep tone. Press the **MODE key** until a bell icon appears in the display and the hour flashes.

- Use the **UP** and **DOWN keys** to set the hour.
- Press the **MODE key** again to set the minutes with the **UP** and **DOWN keys**.

You can exit setting mode with the **temperature unit key**.

The alarm time can also be activated/deactivated with the **temperature unit key**.

5.5 Comfort level

From the measured parameters, the hygrometer determines a comfort level which gives information about the comfort in a flat or office. This is indicated by a smiley on the left edge of the display.

6 Battery replacement

The top left of the display shows the battery level. It is necessary to change the batteries when no bar is shown in the battery display. To do so, open the battery compartment and insert new batteries, observing the correct polarity.

7 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.

8 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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