

USER MANUAL

THERMO HYGROMETER

PCE-HT 70

ENGLISH



User manuals in various languages (français, italiano, español, português, nederlands, türk, polski) can be found via our product search on:
www.pce-instruments.com

APPLICATION

This instrument adopts a high-precision digital temperature and humidity sensor, featuring high accuracy, fast response, and excellent stability. It is designed for data collection and recording of ambient temperature and humidity. Widely used in indoor temperature measurement, warehouse management, logistics and transportation, communication equipment rooms, intelligent buildings, subways, shopping malls, libraries, and other occasions.

CHARACTERISTICS

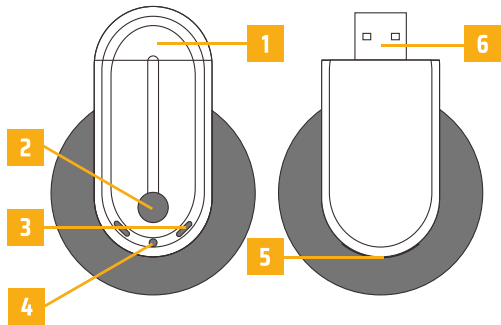
- » High accuracy and fast response speed
- » Unit: °C/°F
- » Maximum and minimum values
- » Resolution: 0.1%RH, 0.1°C
- » Directly generating PDF datasheets and curve diagrams
- » Marking the datasheets in different colors when recorded data exceed the limits according to limit setup
- » Data storage of 70000 data (35000 sets)
- » Sampling interval of 1s-24s
- » Start or stop key
- » Light alarm

TECHNICAL DATA

Humidity	Range	0 ... 100%RH
	Accuracy	35 ... 80%RH; ±3.0%RH Others; ±5%RH
Temperature	Range	-40°C ... 70°C / -40°F ... 158°F
	Accuracy	-10°C ... 70°C; ±0.5°C/±0.9°F -40°C ... -10°C; ±0.8°C/±1.5°F

DEVICE DESCRIPTION

- 1 - Sensor cover
- 2 - Start/stop key
- 3 - Temperature and humidity sensor
- 4 - Recording LED
- 5 - Holder
- 6 - USB interface



HOW TO USE

Important before you start:

Plug the device into your computer's USB port and copy the APP file from the device to your computer. If you skip this step, you may lose the setup software.

Step-by-step instructions:

- » Insert a CR2032 battery into the compartment (positive side facing out) and close the cover.
- » Connect the device to your computer via USB.
- » Open the APP setup software on your computer.
- » Set up your recording preferences (temperature, humidity, intervals, etc.).
- » Unplug the device from your computer.
- » Press and hold the START/STOP button for about 3 seconds until the green LED lights up, then release. The green light will start flashing—this means the device is now recording data.
- » To stop recording, press and hold the same button for about 3 seconds until the red LED lights up, then release. The red light will flash—this means recording has stopped.

What the lights mean:

Green LED flashes (every 15 sec): Device is recording normally

Red LED flashes (every 17 sec): Alarm / warning (temperature or humidity out of range)

How to view your data:

- » Plug the device back into your computer via USB. It will automatically stop recording and generate a PDF report.
- » Wait a moment—the red LED will flash while the PDF is being created.
- » Once done, a new drive will appear on your computer. Open it to view your PDF report.

Important notes:

- » After you stop recording, you must use the APP to reload the settings before you can start recording again.
- » If the battery is low (below 2.4V), the red LED will flash and recording will stop. You won't be able to start recording again until you replace the battery.

Quick tip: Always make sure you have the APP file saved on your computer before using the device for the first time!

Important Notes:

- » Starting a new recording will erase all previously saved data. Please download and save your data before starting a new recording session.
- » If you won't be using the device for a long time, remove the battery to prevent damage.
- » For measurements in environments below -20°C / -4°F, please use a battery that can operate normally at -40°C / -40°F (standard batteries may not work in extreme cold).

SETTINGS

Plug the USB temperature and humidity data logger into your computer. Once connected, the setup screen will appear.

- » Unit – Select your preferred temperature unit: °C or °F.
- » Alarm Setting – Set the high/low temperature and humidity limits. When exceeded, the device will alert you.
- » Interval – Choose how often the device records data, from 1 second up to 24 hours.
- » Startup Delay – Set a delay time before recording starts after you press the button (useful if you need time to place the device in position).
- » CN – Enter up to 8 letters or numbers. This will be used as the PDF file name.

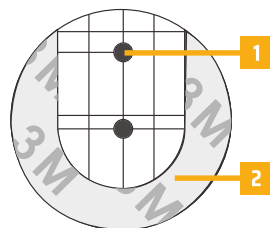
How to apply your settings:

- » Click OPEN to connect to the device.
- » Click SET_UP_PARAMETER to upload your settings.
- » Wait for the Setup Successful pop-up, then click OK.
- » Click CLOSE and unplug the device from your computer.

How to mount the device:

The device can be fixed in two ways

- 1 - Expansion screw holes – For permanent mounting on walls or surfaces using screws.
- 2 - 3M adhesive pad – Peel off the protective film and stick it onto a clean, flat, and smooth surface.



PDF FILE DISPLAY OF TEMPERATURE & HUMIDITY DATA LOGGER

LOG DATA

Alarm Status

Alarm Yes

Power On Settings

Start Up Delay: 1 min Interval: 0H 0M 1S

Parameter Settings

TEMP Upper Limit: 30.0 °C
TEMP Lower Limit: -25.0°C
HR Upper Limit: 80.0%
HR Lower Limit: 25.0%
Unit: °C

Summary Data

Temperature Max: 33.8 °C
Temperature Min: 30.8 °C
Humidity Max: 67.2%
Humidity Min: 55.4%

SN: A1234568

File Generation Time

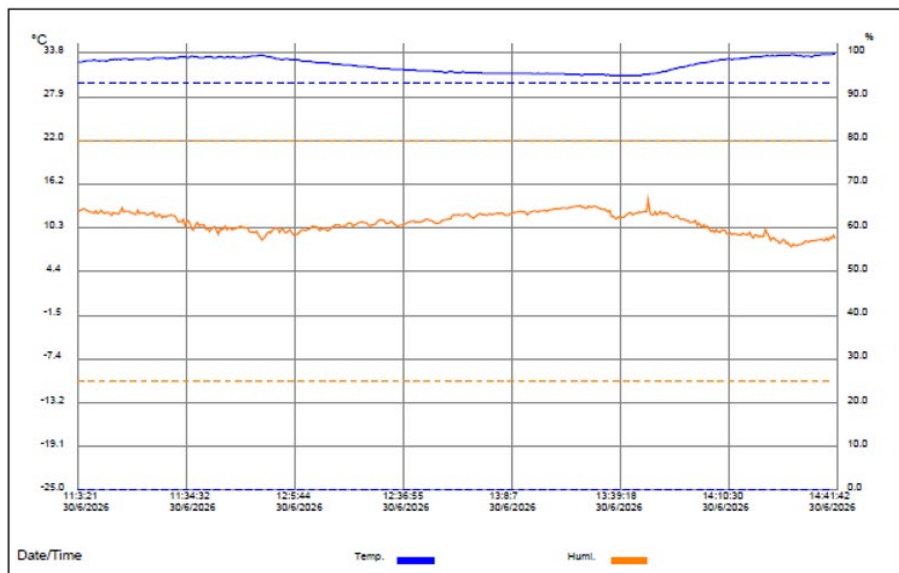
On: 30/06/2026 14:46:58 By: USB

Recorded Data

First Point: 30/06/2026 11:03:21
Stop Time: 30/06/2026 14:41:42
Number Points: 13102

Alarm

First Point Time: 30/06/2026 11:03:21
Last Point Time: 30/06/2026 14:41:42
Alarm Time Length: 0000D 03H:38M:22S
Alarm Number Points: 13102



Temperature and Humidity

Date/Time	°C	%	Date/Time	°C	%	Date/Time	°C	%	Date/Time	°C	%	Date/Time	°C	%	Date/Time	°C	%
30/06/26	32.6	63.8	11:04:21	32.6	64.2	11:05:21	32.7	64.2	11:06:21	32.8	63.8	11:07:21	32.8	63.7	11:08:21	32.9	64.1
11:03:22	32.6	63.7	11:04:22	32.6	64.2	11:05:22	32.7	64.2	11:06:22	32.8	63.8	11:07:22	32.8	63.6	11:08:22	32.8	63.9
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11:04:20	32.6	64.2	11:05:20	32.7	64.1	11:06:20	32.8	63.9	11:07:20	32.8	63.8	11:08:20	32.8	64.2	11:09:20	32.7	63.5

DISPOSAL

For the disposal of batteries in the EU, the (EU) 2023/1542 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 26
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

France

PCE Instruments France EURL
2, rue Georges Kuhnmmunch
67250 Soultz-sous-Forêts
France
Tel.: +33 (0) 972 35 37 17
Fax: +33 (0) 972 35 37 18
info@pce-france.fr
www.pce-instruments.com/french

Spain

PCE Ibérica S.L.
Calle Mula, 8
02500 Tobarra (Albacete)
España
Tel.: +34 967 543 548
info@pce-iberica.es
www.pce-instruments.com/espanol

United Kingdom

PCE Instruments UK Ltd
Trafford House
Chester Rd, Old Trafford
Manchester M32 0RS
United Kingdom
Tel: +44 (0) 161 464902 0
Fax: +44 (0) 161 464902 9
info@pce-instruments.co.uk
www.pce-instruments.com/english

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

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

The Netherlands

PCE Brookhuis B.V.
Twentepoort West 17
7609 RD Almelo
Nederland
Telefoon: +31 (0)53 737 01 92
info@pcebenelux.nl
www.pce-instruments.com/dutch

United States of America

PCE Americas Inc.
1201 Jupiter Park Drive, 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

Denmark

PCE Instruments Denmark ApS
Birk Centerpark 40
7400 Herning
Denmark
Tel.: +45 70 30 53 08
kontakt@pce-instruments.com
www.pce-instruments.com/dansk



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