

# Instruction Manual for Digital Thermohygrometer Model PC-5000TRH II

Thank you for purchasing the digital thermohygrometer PC-5000TRH II.

- This product is designed to measure temperature and humidity of atmosphere. Do not use it for other purposes.
- Read this manual thoroughly before use. Keep this manual in a safe place for future references.

## Features

- A large display for easy visibility
- Internal sensors measure indoor temperature and indoor humidity. Outdoor temperature can be measured by connecting external sensor
- Displays of Maximum/Minimum temperature and R. humidity are switchable by a button
- Comfort level is displayed with WET, DRY or COMFORT



### Warning

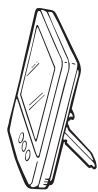
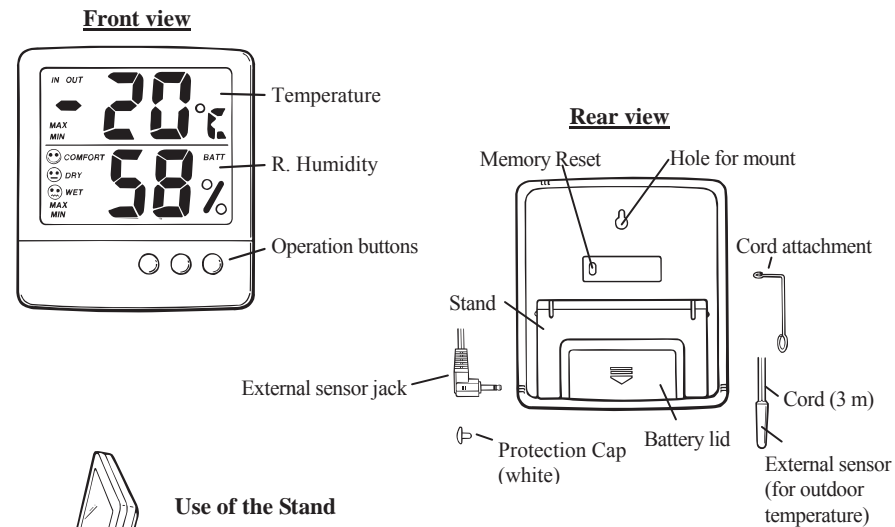
The PC-5000TRHII is not explosion-proof. Never use it in an atmosphere containing flammable gases



### Beware of Explosion!

There is a risk of explosion. Take extreme care

## Names of Sections



### Use of the Stand

Flip out the plastic stand at the backside of the unit for table standing.

## Loading Battery

- (1) Remove the battery lid on the back of the unit by sliding it downward.
  - (2) Load one AAA battery with correct polarity [ (+) (-) ] as instructed in the battery compartment.
  - (3) Reinstall the battery lid.
- \* The low battery mark lights when the battery power becomes insufficient. Replace the exhausted battery to new one with the above procedure. If the display is not normal after the replacement, remove the battery once and let the unit rest for 5 min. or so.

## How to Use

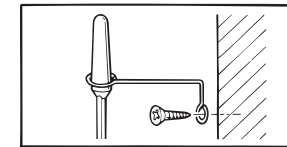
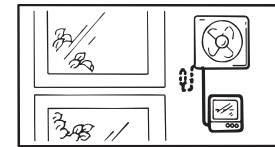
### Installation

For installation, use the plastic stand at rear of the unit for standing or mount the unit on a wall using the hole for mount.

### Use of external sensor

- (1) Remove the protection cap on the rear of the unit and insert the external sensor jack into the hole until it clicks.
- (2) Press the memory reset button
- (3) Install the external sensor at the place you want to measure

\* When the external sensor is placed in outdoor



- 1) Place the external sensor outside through a hole of air fan or like.

- 2) Hang the external sensor with the attachment loop onto a wall and fasten the attachment with a screw through a hole

NB. \* In order to avoid water entering into the sensor, install the sensor with the point of the sensing part pointing up.

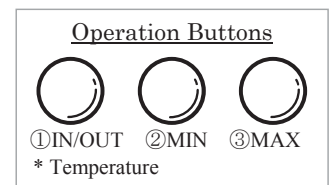
- \* Locate the external sensor probe away from direct sunlight and heavy precipitation
- \* Remove the protection cap of the sensor jack and plug the external probe into the Sensor Port.
- \* Make sure it is properly connected. When the external probe is removed, release the memory by pressing "MEMORY RESET" button at the back of the unit.

### Displaying the Indoor Temperature and Humidity ( in use of built-in sensors)

Press the ① IN/OUT button to switch to IN (IN is lit). The upper LCD displays indoor temperature and indoor humidity displays the lower LCD.

### Displaying the Outdoor Temperature

Press the ① IN/OUT button to switch to OUT (OUT is lit). The upper LCD displays outdoor temperature.



NB: The lower LCD displays indoor humidity for all time.

● **Displaying Max or Min Temperature and/or R. Humidity**

- (1) To display the minimum indoor/outdoor temperature, press the ②MIN button once. Press the ②MIN button again to return to the current temperature readings.
- (2) To display the maximum indoor/outdoor temperature, press the ③MAX button once. Press the ③MAX button again to return to the current temperature readings.

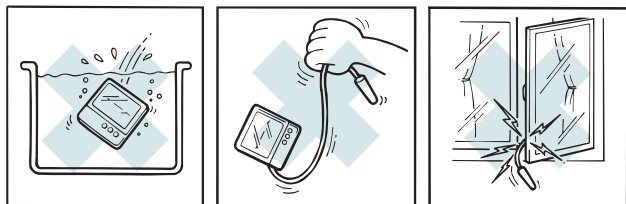
● **Comfort Level Indicators**

Display	Temperature range	Humidity range	Environment
COMFORT ☺	20 to 25°C	40 to 70%rh	Ideal ranges
DRY ☹		Less than 39%rh	Contain inadequate moisture
WET ☹		More than 71%rh	Contain excess moisture

According to the current indoor temperature and humidity, one of the messages (COMFORT, DRY or WET) appears to indicate the comfort level of the environment.

**Cautions in Use**

- The PC-5000TRHII is not waterproof. Never let it get wet.
- Do not use the instrument and the external probe in water.
- Do not pull the sensor cord or hang the instrument with the sensor cord.
- When placing the external probe outside, be careful not to break the sensor cord by opening and closing the window..
- Use the instrument within the measuring range. Otherwise the instrument may cause a malfunction.



- Keep batteries out of reach of children. If it has been swallowed accidentally, consult with doctors.
- For environmental conservation, dispose of used batteries in compliance with local rules and regulations.
- Do not use the instrument at a place exposed to direct sunlight or near heaters. Doing so might cause not just measuring failures, but also the instrument's case to deform.
- Do not clean the instrument with alcohol, thinner or any organic detergents etc. Use a cloth moistened with neutral detergent water.
- Never disassemble or alter the instrument to avoid the causes of trouble.
- This is a precision instrument. Be careful not to drop or give a shock to it.

**Trouble Shooting**

If an error occurs, check the details and take corrective action referring the below. If the problem persists, please contact the store where you purchased it or our Service Network.

Display	Causes	Remedy
-50°C or 70°C is blinking at temperature display section	Temperature value exceeds the measuring range	Bring the value within the measuring value
	Switched OUT mode without connecting the external probe	Connect external probe
	Connection of the external probe is poor	Unplug the external probe once and connect it again
”LL” or “HH” is blinking at humidity display section	Humidity value exceeds the measuring range	Bring the value within the measuring value

**Specifications**

Name and Model	: No. 1050-00 Digital Thermohygrometer PC-5000TRH II
Measuring Range	: Internal sensors    Temperature: 0 to 50°C R. Humidity: 25 to 94% RH at 25°C : External sensor    Temperature: -50 to 70°C
Accuracy	: Internal sensors Temperature: ±1°C at 0 to 40°C ±2°C at other than above R. Humidity: ±5% rh at 40 to 80% at 15 to 40°C ±7% rh at other than above : External sensor Temperature: ±1°C at 0 to 40°C ±2°C at -30 to 0°C ±3°C at other than above
Resolution	: Temperature: 1°C, R. Humidity: 1 %
Sampling time	: Every 10 sec.
Storage condition	: 0 to 50°C, less than 85% RH (no condensing)
Power requirement	: 1.5 VCD (one “AAA” size manganese battery)
Battery life	: about one year (depending on the environment the unit is used)
Dimensions	: 99 (W) × 107 (H) × 20 (D) mm Cord length of external probe: about 3 m
Materials	: Main body                    : ABS resin Sensing part                : Polycarbonate Cord                            : PVC (Polyvinyl Chloride)
Weight	: about 135 g (inclusive a battery)
Standard accessories	: one AAA battery, external probe, cord attachment

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