

# Instruction Manual

## Digital Thermohygrometer Model PC-7700II

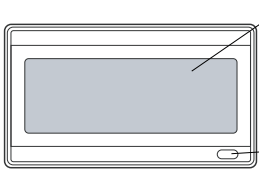
### 1. Introduction

Thank you for purchasing the digital thermohygrometer model PC-7700II.

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

### 2. Names of Sections

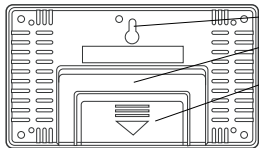
#### Front view



**LCD display:** Displays current, maximum (highest) and minimum (lowest) temperature and current, maximum (highest) and minimum (lowest) relative humidity. The current temperature and humidity are also displayed as indication bars.

**Reset button:** Clears the memory of maximum and minimum temperature, maximum and minimum humidity.

#### Rear view



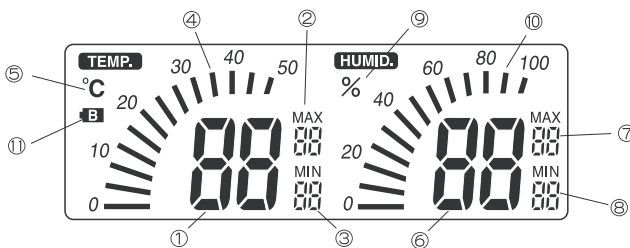
**Wall-mounting hole:** For mounting the unit on a wall

**Desk stand:** Use this to place the unit on a desk/table top.

**Battery compartment/lid:** Use one AAA battery

#### LCD

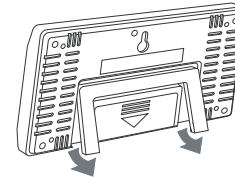
- ① Current temperature
- ② Maximum temperature
- ③ Minimum temperature
- ④ Temperature indication bars
- ⑤ Temperature unit (°C)
- ⑥ Current humidity
- ⑦ Maximum humidity
- ⑧ Minimum humidity
- ⑨ Unit of humidity (%): The relative humidity is displayed.
- ⑩ Humidity indication bars
- ⑪ Low battery indicator: Lights up when the battery is low.



### 3. Using PC-7700II

The PC-7700II displays current temperature and humidity values in numeric as well as the bar indicators. It also displays maximum temperature and humidity and minimum temperature and humidity values last recorded since a battery replacement or pressing the reset key. The unit can be placed on a desk or mounted on a wall.

#### ● Desktop Use



Pull out the stand attached to the back of the unit for desktop use. Find a stable place free of direct sunlight and air conditionings to install.

#### Caution!

Temperature and humidity values vary depending on the location of the instrument in a room. Temperature is often higher farther away from the floor and lower closer to the floor. Install the unit in a place that suits your needs.

#### ● Wall-mounting Use

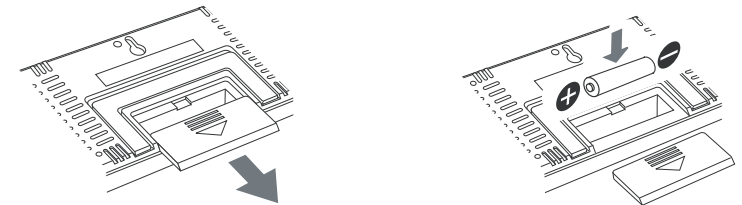
- . When mounting on a wall, use the wall-mounting hole to secure it to the wall with a screw.
- . A screw is not included in the package. You need to purchase a screw of the size described above from a home center or a hardware store.
- . Select a place without the risk of falling and make sure that the screw is firmly secured and the installation is properly done. Check the installation by slightly moving the unit from side-to-side and up-and-down.

### 4. How to Install a Battery

Remove the battery compartment lid and place one AAA battery inside with correct polarities as illustrated inside of the battery compartment

(1) Remove the battery compartment lid.

(2) Place a battery.



On the LCD, temperature (current, maximum and minimum) and humidity (current, maximum and minimum) values will be displayed. In addition, the current temperature and humidity values are displayed as the bar indicators.

- Use one AAA/R03 manganese or AAA/LR03 alkaline battery.
- Replace the battery when the low battery indicator appears on the LCD. When the battery power becomes low, the display dims, measurement errors occur and the clock displays a wrong time.

**Note:** Immediately replace the battery when the Low Battery indicator appears.  
The battery on the unit lasts about one year at 20°C with 50% relative humidity.

## 5. Cautions in Use

- The instrument is delicately made. Be careful not to drop it or give a shock to it.
- The instrument is not waterproof. Avoid a direct contact with water.
- Do not use the instrument at a place exposed to direct sunlight or near a heater. Doing so may cause deformation of the casing and/or malfunction of the instrument.
- Do not clean the instrument with alcohol, thinner or any other organic detergents etc. Use a cloth moistened with neutral detergent water.
- Do not install the instrument near a TV, a cell phone or a microwave oven. Doing so may cause the readings of temperature and humidity unstable due to electromagnetic interference. Avoid exposing the instrument to strong electromagnetic fields.
- If the instrument is not used for a long period of time, remove the battery to avoid any leakage of the battery fluid which could damage the instrument.
- Never alter or disassemble the instrument to avoid malfunctions. Especially never put the instrument in a fire

## 6. Warnings

- Batteries pose a danger of suffocation or poisoning if swallowed. Keep batteries out of reach of children.
- When batteries are not in use, insulate the terminals with tape to prevent contact with other metal objects or batteries. Otherwise, a short circuit may occur and cause a fire or an explosion.
- For environmental conservation, dispose the used batteries in compliance with local rules and regulations.
- If the LCD panel broke, be sure not to touch the liquid inside. Doing so may cause skin irritations. If swallowed, gargle with water and seek a medical attention immediately. If the liquid comes in contacts with eyes or skin, wash them off with clean water for at least 15 minutes and seek a medical attention.

## 7. Specifications

Name	No. 1069-00 Digital Thermohygrometer		
Model	PC-7700II		
Measuring Range	Temperature	:	-10 to 50 °C
	R. Humidity	:	20 to 95% rh
Bar Indicator Range	Temperature	:	0 to 50 °C
	R. Humidity	:	0 to 100% rh
Accuracy	Temperature	:	±1 °C at 10 to 40 °C ±2 °C other than above
	R. Humidity	:	±5%rh: at 40 to 70% at 15 to 35 °C ±7%rh: at other than above
Resolution	Temperature	:	1 °C
	R. Humidity	:	1% rh
Operating Condition	-10°C to 50 °C, less than 95% rh (no condensing)		
Storage Condition	-10°C to 50 °C, less than 95% rh (no condensing)		
Sampling Time	about every 10 sec.		
Sensors	Temperature	:	Thermistor
	R. Humidity	:	Electrical resistance change humidity sensor
Power Requirement	1.5VCD (AAA zinc-carbon battery × 1)		
Battery Life	About one year (at 20 °C, 50%rh state)		
Dimensions	(W) 150 × (H) 85 × (D) 17 mm		
Weight	approx. 135 g (including battery)		
Standard Accessory	AAA zinc-carbon battery × 1		

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