

## Digital Thermohygrometer Model PC-5410TRH

This product is designed to measure indoor temperature and humidity. Do not use it for other purposes. Read this manual thoroughly, and keep it for future reference.

### Features

Displays current, highest, and lowest temperature and humidity together

**Alarm buzzer and light** notify when the temperature or humidity exceed or fall below user-set thresholds

**Large LCD** helps you easily read indication from a distance

### Important Notices



#### Beware of Explosion

PC-5410TRH is not explosion-proof. Never use it in an atmosphere containing flammable gases.



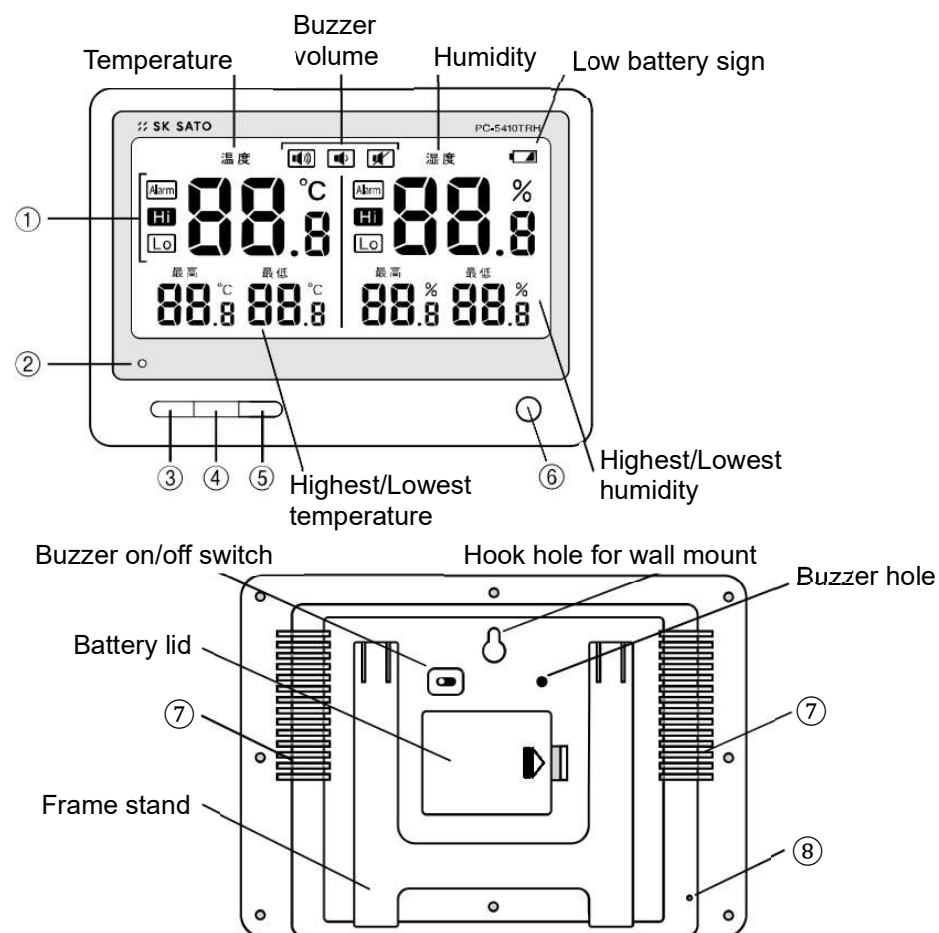
#### Cautions

To use PC-5410TRH properly, follow the instructions below.

- Use the device in a normal atmosphere in the measurable range.
- PC-5410TRH is not waterproof. Do not wet it. **If the device gets condensed, remove batteries immediately and let the body dry naturally under room temperature.**
- Do not use the device in an environment with electrical noise, or the display may become unstable or the measurement error may increase.
- Do not drop, give a shock, disassemble, customize, or insert wrong power sources to the device.
- Do not block the air flow through the ventilation slits, as the sensor is inside there.
- Do not use the device under direct sunlight or aside a heat source, air conditioner, or humidifier.**

- Do not leave the device in a place like an automobile on a fine summer day, or the extreme heat may damage it.
- Do not wash or wipe the device with alcohol, thinner, or other organic solvents. If the device becomes dirty, wipe it with a tightly-wrung towel that has been dipped in warm water with neutral detergent.
- For repair or calibration, or if the device is broken before use, contact us or a retailer from which you have purchased.

### Names of Sections

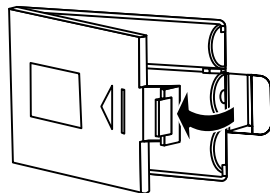


1. **Alarm** is lit during an alarm is set  
**Hi** / **Lo** is lit when the high/low limit alarm is activated
2. LED blinks when either alarm is activated. This function cannot be turned off.
3. Set key: To begin alarm setting
4. ▲ key: To increment the variable
5. ▼ key: To decrement the variable
6. Clear key: To initialize the highest and lowest values
7. Do not block the air flow through these ventilation slits.
8. Reboot key: To reboot the device when it malfunctions

### Replacement of Batteries

Insert or replace batteries as follows when PC-5410TRH is used for the first time or the low battery sign is lit.

1. Open the battery lid as shown on the right picture.
2. Remove used batteries if they are inside.
3. Load three new AA batteries following the polarity signs in the battery box.
4. Close the battery lid.



When the batteries are successfully installed, a buzzer beeps and the LED blinks, then the device starts measurement of temperature and humidity. All indication and set values will be initialized.



### Cautions Related to Batteries

- Replace batteries immediately when the low battery sign is lit. Otherwise, the measurement accuracy cannot be maintained.
- Do not mix new and old, or different types of batteries.
- Do not solder, short-circuit, disassemble, heat, or dispose of batteries in a fire.
- Wrap batteries with a tape to insulate when they are stored or disposed. Collision with other metals or batteries may lead to a fire or explosion.
- For environmental conservation purposes, dispose of batteries in compliance with local rules and regulations.
- Keep batteries out of the reach of children. If they are swallowed accidentally,

consult a doctor immediately.

- Remove the battery if not used for a long period, or it may lead to fluid leakage and malfunction.
- If battery fluid leaks out, wipe it away immediately without touching it directly.

### How to Use

1. After batteries are set, install the device on a stable desk or wall.
2. Let the device adapt to the ambient for at least 30 minutes.
3. Temperature and humidity are updated every 30 seconds. Highest and lowest values since the batteries are exchanged or Reboot key is pressed are recorded together.
4. Press Clear key for 2 seconds to reset the highest and lowest values.

### Alarm Function

Each of high limit and low limit alarms for temperature and humidity can be set independently. When the measured value exceeds the high limit or falls below the low limit, a buzzer and blinking of LED is activated for 30 seconds. To stop the alarm without waiting for 30 seconds, press any key on the front side.

In addition, **Hi** or **Lo** sign keeps lighting even after the alarm stops in order to distinguish which side of alarms has been activated. To turn off this sign, press ▲ and ▼ keys simultaneously.

### How to Set Alarm

1. First, press Set key for 2 seconds. **Alarm** and **Hi** signs in the temperature section will blink to show you can adjust the high limit in temperature.
2. Press ▲ or ▼ key to move the high limit temperature between 0.0 and 50.0°C in steps of 0.1°C, then press Set key. **Alarm** and **Lo** in the left will blink next.
3. Set the low limit temperature, which must be lower than the high limit, by the same process. **Alarm** and **Hi** in the humidity section will blink next.
4. Set the high limit humidity between 20.0 and 95.0%rh in steps of 0.1%rh, then press Set key. **Alarm** and **Lo** in the right will blink next.
5. Set the low limit humidity, lower than the high limit as well. Press Set key finally to return to measurement. **Alarm** is lit continuously while the alarm is set.

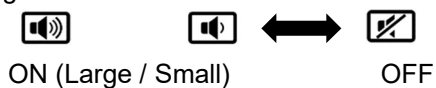
## Note

Once the alarm is activated, it gets activated again only when the measured value falls below the high limit or surpass the low limit and then reaches the limit.

## How to Set Buzzer

The buzzer can be either turned off, set to sound smaller, or set to sound larger. Initially or after the batteries are replaced, it is set to beep larger. However, the buzzer is silenced regardless of the setting when the switch is turned off.

1. Turn on or off the buzzer by the buzzer on/off switch on the rear side. One of the buzzer volume signs is lit to show the current state.



2. To change the buzzer volume, press ▼ key for 2 seconds during the buzzer is switched on. The volume will be changed after beeping. Note that it cannot be modified when the buzzer is off.



## Error Displays

If an error code of “Lo,” “Hi,” or “--” is displayed, it means the ambient is out of measuring range. Use within the range.

If it is shown even within the range, the sensor is likely to be defective. Contact us or a retailer from which you have purchased.

## Warranty Policy

Our products are warranted to be free from defects in materials and workmanship for a period of one year from date of delivery. If repair is necessary and has not been the result of misuse, force majeure, or transportation arranged by yourself within the one-year period, please return the products on freight prepaid basis. Correction of the defect will be made without charges. We alone will determine if the product problem is due to deviations or customer misuse.

Out-of-warranty products will be repaired for a fee.

Before returning, request for our acknowledgement first.

## Specifications

Product name	Digital Thermohygrometer	
Model no.	PC-5410TRH	
Catalog no.	1074-10	
	Temperature	Humidity
Measuring range	0.0 to 50.0°C	20.0 to 95.0%rh
Accuracy	±1.0°C (10 to 40°C), ±2.0°C (other)	±5%rh (40 to 80%rh, 20 to 30°C) ±8%rh (other)
Resolution	0.1°C	0.1%rh
Sampling time	30 seconds	
Sensor	Thermistor	Polymer resistive humidity sensor
Alarm range	0.0 to 50.0°C in steps of 0.1°C	20.0 to 95.0%rh in steps of 0.1%rh
Operating ambient	0 to 50°C, less than 95%rh without condensing	
Storage ambient	0 to 50°C without condensing	
Power	AA battery x 3 (4.5VDC)	
Battery life	2 years with alkaline batteries, alarm ringing once a day Attached batteries are for test purpose and may last shorter.	
Material	ABS resin, acrylic resin	
Dimensions	230 (W) x 164 (H) x 27 (D) mm	
Weight	510 g including batteries	
Accessories	AA alkaline battery (LR6) x3	

Specifications and appearance are subject to change for improvement.

Visit our website <https://www.sksato.co.jp/en/> for the latest information.

For details, contact us or a retailer from which you have purchased.

### **SATO KEIRYOKI MFG. CO., LTD.**

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