## Getting Remote Units Ready

### Install the Batteries

When a battery is installed, the measurement will start at the factory default settings or the previously set ones.

**Factory Default Settings**
- **Recording Mode**: Endless
- **Recording Interval**: 10 minutes
- **Recording Start Method**: Immediate Start

1. Remove the screws and open the cover.
2. Insert the supplied battery with tube into the case as shown in the diagram below.
3. Check the rubber packing for any cuts or scratches and close the cover as it was opened.

### Notes about Battery Installation

- If a new battery has been installed and recording does not immediately start, anything appears in the display or any other such malfunction, please remove the battery, check to make sure plus and minus are correct and re-insert the battery.
- After inserting the battery for the first time, nothing may appear or occur for about 10 seconds; this is not a malfunction.
- If a battery is not inserted, the battery warning mark will appear.

### About Lithium Batteries

- When using lithium batteries other than LS14250 produced by SAFT, such as CR2, product specifications cannot be guaranteed nor can the performance of some functions, such as the battery warning function.
- Please avoid using the CR2 in the following situations:
  - Using the unit in an environment below 0 °C or above 60 °C
  - Exposing the CR2 to continuous vibration such as in transportation
  - When using a CR2 lithium battery, the tube is not necessary.
- To maintain waterproof capacity, when changing batteries also change the rubber packing and the drying agent (silica gel). When using a CR2 lithium battery, please use the optimal Maintenance Set (TR-001P) to replace the rubber packing and silica gel.

### About using in Low and High Temperature environments

- Use in low temperature environments will result in a shortening of the battery life:
  - -20°C: one half of life compared to normal temperatures
  - 30°C: one third of life compared to normal temperatures
- Although under normal temperature environments the [bAtt] indicator may remain on for a short time
  - Under high temperature environments, this is a characteristic of the LCD panel and not a malfunction.

### Optical Communication (Communication with PC)

Optical Communication is carried out by placing a data logger (Remote Unit) face down on the Base Unit connected to the PC. Make sure to align the optical communication areas and slotted areas.

**Operations that require Optical Communication**
- To acquire data and make necessary settings using the software supplied with the Base Unit.
- To download recorded data directly from Remote Unit to PC.

### Battery Replacement

When a battery warning mark appears, try to replace the battery with a new one as soon as possible.

1. When it is time for the battery to be replaced, a battery warning mark will appear.
2. If you do not change the battery and continue using the RTR-501, RTR-502, RTR-503, or RTR-507S, the display will alternately flash [bAtt] and [--- ---], and then stop the measurement. In this condition, recording will continue for both types of units.

### Notes about Optical Communication

- If the battery level of the data logger is very low or optical communication is carried out in very hot or cold environments, communication may be broken or may not be possible.
- For details about Remote Unit registration and settings, see the application’s Help.
Specifications

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<tr>
<th>Specification</th>
<th>Value</th>
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<tbody>
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<td>RTR-500A2</td>
<td>Temperature 1ch (internal)</td>
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<td>RTR-500B1</td>
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<td>SHB-3101</td>
<td>Temperature-Humidity Sensor</td>
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Cautions about using the Included Sensors

Temperature Sensor: TR-5106

- Do not turn on or off the electrical power at the outlet of the unit or sensor while operating.
- Do not subject the sensor to any high or low temperature conditions.
- Do not use the sensor in an area with high humidity or condensation.

Temperature-Humidity Sensor: TR-3310

- Always make sure that the sensor is dry before connecting it.
- Do not use the sensor in a high-temperature environment.

High Precision Temperature-Humidity Sensor: SHB-3101

- Do not use the sensor in a high-humidity environment.
- Do not use the sensor in an environment with high temperature or moisture.

Explanation of Symbols

- These entries are actions that, if taken, may cause serious personal injury or death. Do not perform these actions.
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Important Notice and Disclaimer

In order to properly use this product, please carefully read all documentation that accompanies the product before using. T&D Corporation explicitly disclaims all responsibility for any misuse of this product or its components by you or any other person. T&D Corporation shall not be liable for any injury or damage caused by your misuse of the product under any circumstances.

- If the battery is not charged properly, it may cause explosion or other serious damage.
- Use only the recommended battery. The use of any other battery may cause damage to the unit or result in an explosion.
- Do not dispose of the batteries in fire. This may cause a fire or explosion.

Remote Wireless Thermometer Warranty

We have opened an English Website for your convenience. Here you can find information about our products, upcoming events, software downloads, and technical support. Please stop by and see what we have to offer!

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- If the battery is not charged properly, it may cause explosion or other serious damage.
- Use only the recommended battery. The use of any other battery may cause damage to the unit or result in an explosion.
- Do not dispose of the batteries in fire. This may cause a fire or explosion.