What is a Wireless Thermo Recorder?

These products are data loggers designed to measure and record temperature and humidity with built-in wireless communication capability. No longer is it necessary to manually gather the data loggers. Rather, via our special radio communication function, data download, settings, analysis and the saving of data can all be done via a wireless Base Unit connected to your PC.

Wireless Thermo Recorder
RTR-501 / 502 / 503 / 507
User’s Manual

Connecting the Sensors

Make sure that the sensor is completely inserted until you hear a “click” sound.

• Make sure to use the proper type and size screwdriver. (Phillips head #1 or flathead driver is recommended.)
• If dirt or scratches are present on the rubber packaging, water resistance will be reduced.
• Be sure to completely close the cover. Make sure not to over tighten the screws.
• Appropriate Tightening Torque: 20N·cm to 30N·cm (2kgf·cm to 3kgf·cm)

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.
   - When a battery is installed, the measurement will start at the previously set recording conditions.

2. If you do not change the battery and continue using the RTR-501, RTR-502, or RTR-503, the display will alternately flash [bAtt] and [FULL], and then stop the measurement. In this condition, recording will continue for both types of units.

Getting Remote Units Ready

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If there is a possibility that units with the same frequency channel will be in wireless communication at the same time, please make sure to change the frequency channels so that they are not the same.

**Important Notices and Disclaimers**

In order to properly use the products, please carefully read all documents that accompany the product before using. T&D Corporation accepts no responsibility for any malfunction of and/or trouble with this product or with your computer that is caused by the improper handling of this product and shall bear no liability for any such damage or other incident.

* All types of the attached documents to T&D Corporation is prohibited to use, sell, distribute, or copy any part of the attached documents without the permission of T&D Corporation.
* Microsoft Windows and Windows are registered trademarks of Microsoft Corporation in the United States and/or other countries.
* All registered trademarks, company names, product names and logos mentioned herein or for products being sold are the property of their respective companies or organizations.
* This product has been designed for private and/or industrial use only. It should not be used in places where threat safety criticality are necessary such as with medical equipment, or in the control of human life well-being, or other means.
* Please read and understand explanations in the attached documents. If you do not understand or are confused by these explanations, please contact our business unit or your local representative.

**Explanations of Symbols**

- **WARNING**
  - Do not use in places subject to condensation or wet areas
  - Do not use in places subject to high temperatures such as near fire or heating equipment
  - Do not use in places subject to dust, corrosive substances, impact, or changes in temperature
  - Do not use in places subject to condensation or wet areas

- **DANGER**
  - Do not disassemble, repair or modify the unit and accessories.
  - Do not mount the unit or any accessories on external walls or other parts of the building.
  - Do not use the sensors in places subject to condensation or wet areas

- **CAUTION**
  - Do not disassemble or repair the unit.
  - Do not disassemble or repair the unit.

- **NOTICE**
  - Do not remove or replace batteries with wet hands.

- **NOTE**
  - Do not disassemble or repair the unit.

**Picture Symbols**

- **DANGER**
  - To Prevent Serious Accidents

**Important Notices**

Wireless products cannot be used in countries other than where those products have been approved for use, according to that country’s wireless regulations.

**Compliance Information**

This device complies with technical specifications required under EN 301 489 (with battery and AC Adaptor), EN 300-220, and EN 60950-1.

**Product information or questions contact us at:**

T&D Corporation
3-10-11 Toride, Hitachi, Ibaraki, Japan
Phone: +81-263-40-3154 Fax: +81-263-40-3152 E-mail: support@tandd.com
Website: www.tandd.co.jp

Our English Website is available for your convenience. Here you can find important information about our products and their features. For your reference, a detailed electronic manual download, as well as the manual in PDF format.

**Specifications**

| Temperature/Humidity Sensor: TR-3310
<table>
<thead>
<tr>
<th></th>
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<tbody>
<tr>
<td>Temperature: 0°C to 40°C (with battery), 32°F to 104°F (without battery)</td>
</tr>
<tr>
<td>Humidity: 20% to 95% RH</td>
</tr>
</tbody>
</table>
| Temperature/Humidity Sensor: WPH-3101
<table>
<thead>
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</tr>
</thead>
<tbody>
<tr>
<td>Temperature: 0°C to 60°C (with battery), -10°C to 140°F (without battery)</td>
</tr>
<tr>
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</tr>
</tbody>
</table>

**Temperature/Humidity Sensor: TR-3310**

- Measures Temperature, Humidity, Dewpoint, Wetbulb, Saturated Air Temperature, Total Pressure, Altitude, and more.
- ±0.5°C accuracy (23°C to 28°C, 4°F to 86°F)
- ±2% RH accuracy (23°C to 28°C, 4°F to 86°F)
- Power: 2.5V (with battery), 24VDC (without battery)
- Dimensions: 3.4 x 0.9 x 0.9 inches (86mm x 23mm x 23mm)
- Weight: 0.7 oz (20g)

**Temperature/Humidity Sensor: WPH-3101**

- Measures Temperature, Humidity, Dewpoint, Wetbulb, Saturated Air Temperature, Total Pressure, Altitude, and more.
- ±0.5°C accuracy (0°C to 35°C, 32°F to 95°F)
- ±3% RH accuracy (0°C to 35°C, 32°F to 95°F)
- Power: 2.5V (with battery), 24VDC (without battery)
- Dimensions: 3.4 x 0.9 x 0.9 inches (86mm x 23mm x 23mm)
- Weight: 0.7 oz (20g)