

Important Notices and Disclaimers

- In order to properly use this product, please carefully read this manual 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 will deem such trouble or malfunction as falling outside the conditions for free repair outlined in the attached warranty.
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 - All registered trademarks, company names, product names and logos mentioned herein are the property of T&D Corporation or of their respective owners.
 - Specifications, design and other contents outlined in this manual are subject to change without notice.
 - Please follow the safety precautions outlined in this manual carefully.
 - We cannot guarantee nor are we responsible for safety if this product is used in any manner other than was intended.
 - On screen messages in this manual may vary slightly from the actual messages.
 - Please notify the shop where you purchased this product or T&D Corporation of any mistakes, errors or unclear explanations in this manual.
 - T&D Corporation accepts no responsibility for any damage or loss of income caused by the use of our product.
 - This product has been designed for private or industrial use only. It is not for use in situations where strict safety precautions are necessary such as in connection with medical equipment, whether directly or indirectly.
 - We are not responsible for any malfunction or trouble caused by the use of our product or by any problem caused by the use of measurement results of our unit. Please be fully aware of this before using our product.
 - This User's Manual cannot be reissued, so please keep it in a safe place.
 - Please read the warranty and provisions for free repair carefully.

Thermo Recorder Push Wireless RTR-601

Wireless Core Temperature Data Logger User's Manual

T&D Corporation

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Safety Precautions and Requests

*Please carefully observe the following safety measures when using our product. To prevent any loss or damage to our customers, other people and / or property, and to ensure the proper use of our products we ask that before using our product you carefully read, understand and follow the safety rules and precautions for our products as outlined below.

Explanation of Symbols

	These entries are actions that absolutely under no circumstance should be taken. The taking of such an action may cause serious personal physical damage or death.
	These entries are actions that if taken may lead to physical injury or damage to persons or things.

Explanation of Picture Symbols

	Denotes an important warning or caution. Inside or near the symbol will appear another symbol giving details.
	Denotes a forbidden action. Inside or near the symbol will appear another symbol giving details.
	Denotes an action that you must take. Inside or near the symbol will appear another symbol giving details.

DO NOT POINT THE SENSOR TOWARD HUMANS OR USE IN WAYS OTHER THAN THOSE FOR WHICH THIS PRODUCT WAS DESIGNED

Because the sensor has a sharp tip, there is a risk of accidentally stabbing people and/or objects. Do not use the sensor for any purpose other than measuring the temperature of objects for which it was designed and store in a safe place when not in use.

DANGER! Use Safety Cover

DO NOT TOUCH SENSOR IMMEDIATELY AFTER MEASUREMENT

CAUTION: EXTREME HOT & COLD! **DO NOT TOUCH!**

Please be careful when using in extreme hot or cold environments; touching the unit may cause burns or frostbite.

CLEAN AND STERILIZE UNITS BEFORE AND AFTER USE

Before and after using, please clean to remove any substances attached to the surface and sterilize the units in order to prevent the growth of bacteria.

DAILY MAINTENANCE

Wash with Water

If the unit gets dirty, wipe it with a clean cloth dipped in alcohol; DO NOT WASH with WATER. NEVER use an acid, alkaline, or chlorine based detergent. This will cause harm to the electric components in the unit.

- DANGER**
- Do not take apart, repair or modify the Unit. Doing so may cause fire or electrocution.
 - If any smoke or strange smells are emitted from the Unit, immediately remove batteries and stop using. Continued use may cause fire or electrocution.
 - Do not use any other batteries than those that are specified in this Manual. It may cause a fire or other trouble including malfunction.
 - If water or a foreign body enters the Unit, immediately remove batteries and stop using. Continued use may cause fire or electrocution.
 - The Unit is a device to measure temperature. Do not use the Unit for any purpose other than temperature measurement.
 - Store the Unit and batteries out of the reach of children. It is dangerous to touch or swallow them.

- CAUTION**
- We are not responsible for any damage, malfunction or trouble, whether direct or indirect, caused by the use of our product. Please be fully aware of this before using our product.
 - This Unit has been designed for private or industrial use only. It is not for use in situations where strict safety precautions are necessary such as in connection with medical equipment, whether directly or indirectly.
 - To prevent damage to the Unit from static electricity, remove static electricity from your body by touching the Unit. Static electricity may cause not only damage to the Unit, but may cause breaks in or a loss of data.
 - Use the Unit under conditions with an ambient temperature of -10 to 60°C.
 - The Unit only becomes water resistant (IP64 splash resistant) if the temperature sensor has been connected. Without the sensor connected, the connector part of neither the main unit nor the temperature sensor is water resistant; make sure not to get wet.
 - Do not expose the unit to harmful gases or chemicals. It may cause corrosion and/or other danger to the unit and to people handling the unit.
 - Do not drop the Unit, or expose it to a strong impact. If that happens, immediately disconnect the cables, remove batteries, and stop using. Continued use may cause fire or electrocution.
 - Battery terminals may provide insufficient contact due to age or vibration. This may lead to data loss.
 - Battery life depends on the measurement environment, communication frequency, recording interval and battery quality.
 - Remove batteries from any Unit that is not to be used for a long period of time. Batteries left in a Unit not being used for a long time may leak and cause a malfunction.
 - Do not use or store the unit in places such as listed below:
 - Areas exposed to direct sunlight
 - Areas exposed to water or high-pressure water flow.
 - Areas exposed to organic solvents and corrosive gas.
 - Areas exposed to strong magnetic fields
 - Areas exposed to static electricity.
 - Areas exposed to fire or overheating.
 - Areas exposed to excessive dust or smoke.

Wireless Regulations

Radio, EMC and Safety Regulations

This device complies with Part 15 of the Federal Communications Commission (FCC) rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.

Caution: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note about Antenna Usage: This device has been designed to operate with the supplied antenna only. Use of any other antenna is strictly prohibited.

IC Statement

This device complies with RSS-210 of the Industry Canada (IC). Operation is subject to the following two conditions: (1) This device may not cause harmful interference; and (2) This device must accept any interference received, including interference that may cause undesired operation.

Ce dispositif est conforme à la norme RSS 210 d'Industrie Canada. L'utilisation de ce dispositif est autorisée seulement aux conditions suivantes : (1) il ne doit pas produire de brouillage et (2) l'utilisateur du dispositif doit être prêt à accepter tout brouillage radioélectrique reçu, même si ce brouillage est susceptible de compromettre le fonctionnement du dispositif.

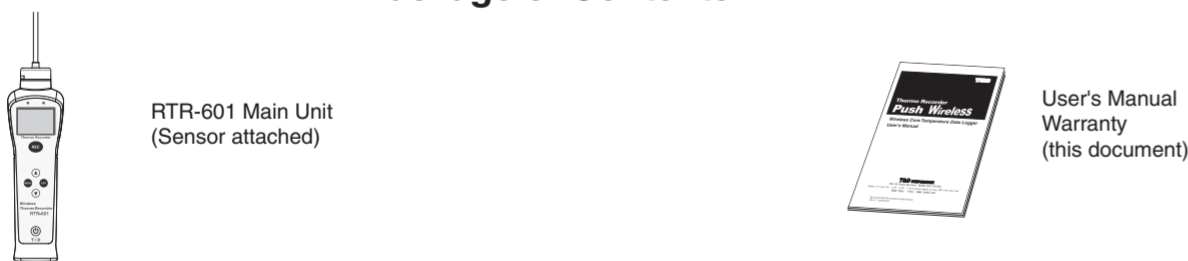
Important Notice

Wireless products cannot be used in countries other than where those products have been approved for use, according to that country's wireless regulations. T&D Corporation shall in no manner whatsoever take responsibility for the usage of these products, nor be liable in any manner for legal consequences stemming from the usage of these wireless products in unapproved areas.

What is RTR-601?

- Thermo Recorder Push Wireless RTR-601 is a handy-type device which acts both as a thermometer and a temperature recorder, which has been designed to easily measure and record the internal temperature of food items and liquid temperature using a needle-type sensor.
- This product has been designed to meet IP64 standards (splash resistant; rated for use in daily life). RTR-601 measures and records core temperature, which makes it suitable for use in the food production industry especially temperature management for HACCP.
- The unit incorporates a battery life warning function, which informs the user when it is time to replace the battery. When the battery power becomes low, all normal operations will stop in order to protect the data.
- The LCD Backlight allows the display to be easily read even in low light. The LCD contrast can also be easily adjusted for better viewing.
- These units are also designed with short range wireless functions that when coupled with our exclusive software set "Push Wireless Communication Set (RTR-601SK)", makes it possible to carry out wireless communication, allowing for easy and effective management of multiple RTR-601 units.

Package of Contents



Part Names and Functions

Judgment LED (Red / Green)
 The Judgment result of temperature measurement will be shown. Out of Range: Red LED will blink. Within Range: Green LED will blink.
***Judgment LED Settings**
 By changing settings, it is possible to turn ON or OFF the Judgment LED function.

Temperature Sensor
 As for details about how to remove or change the sensor, please see the User's Manual that comes with the sensor you will be using. Please be careful when handling the temperature sensor.

PUSH Record LED (Orange)
 By pressing the <REC> button, the lamp will turn on when a temperature measurement is recorded.
 * The recorded object is the temperature at the instant when the <REC> button is pressed.

<REC> Button (Record)
 When this button is pressed, the Temperature, Date / Time, User Name, Item, and Judgment Result at the time of pressing are recorded into the RTR-601.

Cursor Buttons (Moving Up and Down)
 Press to move the Cursors up and down on the display.

Power Button
 Press to turn on / off the power.
***Automatic Power-OFF Function**
 If the unit is not used for about five minutes, it will automatically turn off.
***Automatic Power-ON Function**
 If a unit is OFF, when wireless or optical communication is carried out by a Management Operator, that unit will be automatically turned ON.

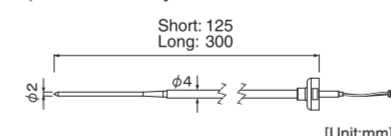
LCD Display
 The RTR-601 is designed with a graphic LCD display with a resolution of 132 x 64 pixels.
*** Backlight Function**
 The LCD Backlight makes the display easier to read in low light conditions.
*** Contrast Adjustment Function**
 The display contrast can be adjusted here.

<MENU> Button
 By pressing this button, the Menu will be displayed. Also, press to return to the previous window.

<ENT> Button
 Press to enter the settings menu or determine the settings.

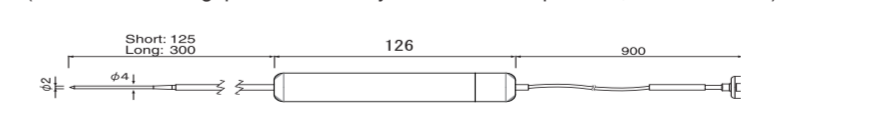
Temperature Sensor (Optional)

All-in-one Type Temperature Sensor
 (Sensor directly attached to the RTR-601 Main Unit)



RTR-60110: Short Temperature Sensor Sensor Length: 125mm
RTR-60130: Long Temperature Sensor Sensor Length: 300mm

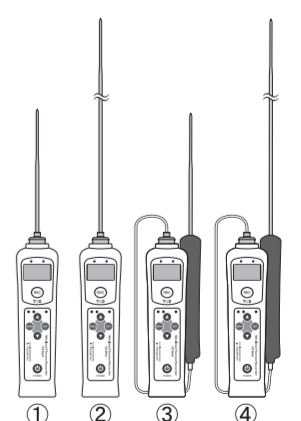
Separate Type Temperature Sensor
 (Sensor with Handgrip and Cord. Easy to measure temperature, even in steam.)



RTR-60E10: Short Temperature Sensor Sensor Length: 125mm
 Cord Length: 900mm
RTR-60E30: Long Temperature Sensor Sensor Length: 300mm
 Cord Length: 900mm

- Sensor Materials: Stainless pipe(SUS316).
- Handgrip Materials: Flame Resistant PPE / PA6 (Temperature Durability: About 170°C)
- Cord Materials: Fluoropolymer-Coated Electrical Wire
- Common Items Included: Sensor Spacer 1 / Rubber Packing 1 / Sensor Replacement Tool 1 / Sensor User's Manual 1

RTR-601 Series



- RTR-601-110: All-in-One Short Type Set**
 Main Unit (RTR-601)+All-in-One Short Type Sensor
 - RTR-601-130: All-in-One Long Type Set**
 Main Unit (RTR-601)+All-in-One Long Type Sensor
 - RTR-601-E10: Separate Short Type Set**
 Main Unit (RTR-601)+Separate Short Type Sensor
 - RTR-601-E30: Separate Long Type Set**
 Main Unit (RTR-601)+Separate Long Type Sensor
- *Common Items Included:
 User's Manual (this document)