Thermo Recorder
log-EZ
RTR-322

Introductory Manual
Thank you for purchasing our product.
Carefully read this Introductory Manual before using this product.

Specifications

- **log-EZ**  RTR-322
- **Wireless Dongle**  RTR-300

### Battery Life
- AA Alkaline Battery × 1
- Approx. 40 g

### Dimensions
- Stand × 1 / Screw × 2
- Approx. 10 g

### Weight
- Operating Environment: Wireless Dongle × 1
- 1 sec.

### Power
- USB Bus Power (5V)
- Other
- CMS (Control Management System)
- English

### Wired Specifications
- 10 min. (Fixed)
- Measurement and Recording Status / Amount of Recorded Data / Measurement Items

### Wireless Specifications
- Accuracy
- Measurement Range
- Frequency Range
- Communication Method
- Interface
- Computer OS
- Software Compatibility

### Operating Environment
- Operating Temperature: -10°C to 60°C
- Humidity: 85%RH or less (non-condensing)

### Other
- Dimensions of the stand: Width × Height × Depth: 53 × 170 × 105.5 mm
- Weight of the stand: Approx. 129 g

Package Contents

- The following items are included in the package:
- “log-EZ” Remote Unit (RTR-322)
- Wireless Dongle
- AA Alkaline Battery × 1
- Introductory Manual (this document)

How to Use the Stand

Slightly bend the stand into a curved shape, and insert the “log-EZ” unit through the round holes of the stand so that the stand holds the “log-EZ”. It can then be placed on a flat surface such as a table or desk, or by using the supplied screws hung on a wall.

Safety Precautions and Instructions

The following items should be strictly obeyed for the safe usage of this product, and for protecting yourself and other people from bodily harm and/or damage to property. Before using this product, please carefully read, understand and follow the safety rules and precautions outlined below.

Cautions about using “log-EZ” (RTR-322)

- **Danger**
- Do not take apart, repair or modify the Unit. It may cause electrocution or damage. Ask the shop when you purchased the product to repair it.
- If any mistake, strange smells or sounds are emitted from the Unit, immediately remove the battery and stop using.
- Swelling batteries are extremely dangerous. Store the Unit in areas near fire or exposed to excessive heat.
- Note that this Unit is not water resistant. If water or a foreign object enters the case, immediately remove the battery and stop using.
- Do not use the Unit in areas of continuous temperature and humidity. Do not use it for any other purpose than to measure temperature and humidity.

- **Caution**
- This Unit has been designed for private or industrial use only. It is not for use in environments where explosive gases are present.
- Battery terminals may provide insufficient contact due to age or vibration. This may lead to data loss.
- Battery life varies depending upon measuring environment, the frequency of communication, and the battery performance.
- Do not drop or expose the Unit to a strong impact. It may cause damage or malfunction.
- Battery terminals may provide insufficient contact due to age or vibration. This may lead to data loss.
- Battery life varies depending upon the type of battery, the measuring environment, the frequency of communication, the ambient temperature, and the battery performance.
- Do not use or store in humid places such as a bathroom.
- Swelling batteries are extremely dangerous. Store the Unit in areas near fire or exposed to excessive heat.
- Do not use the Unit in areas near fire or exposed to excessive heat.
- Do not use it for any other purpose than to measure temperature and humidity.

Cautions about using the “Dongle” (RTR-300)

- **Danger**
- Do not take apart, repair, or modify. It may cause electrocution or damage. Ask the shop when you purchased the product to repair it.
- If any mistake, strange smells or sounds are emitted from the Dongle, immediately remove the battery and stop using.
- Do not use the Unit in areas near fire or exposed to excessive heat.
- Do not use or store in humid places such as a bathroom.

- **Caution**
- This is a precision piece of equipment. Do not expose to strong impact or shock.
- Before touching the “Dongle” to install or remove, please first touch metal around you (steel desk, door knob) to clear static electricity.
- If and when a child is to use the product, make sure they are given proper instructions on how to use it.
- This product is not for saving data.
- Do not use or store in humid places such as a bathroom.
- Do not expose to a strong impact or shock.
- Do not connect to a PC using a USB hub.

Important Notice

- Wireless products cannot be used in countries other than where these 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 arising from the usage of these wireless products in unapproved areas.

Compliance Information

- **CE Statement**
  This device complies with technical specifications required under EN 301 489 (with battery and AC Adaptor), EN 300-440, and EN 60950-1.

- **FCC Statement**
  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.

- **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.

- **Compliance Information**
  This product is not for saving data.
The "log-EZ" is a handy Data Logger designed to measure and record temperature and humidity data, which can then be viewed via your computer. It is possible to manage a multiple number of "log-EZ" units with one computer. Convenient wireless communication makes data transmission easy and simple with no need for cables.

Getting Ready

This section provides instructions on getting the "log-EZ" ready for use including how to make communication settings.

This "Introductory Manual" covers all settings for getting a Base Unit and Remote Unit ready to carry out wireless communication. All settings and instructions for actual operation after that are covered by the "log-EZ for Windows Manual" which will be available from the start menu upon installation of the software. To make sure that proper operation can be carried out, it is necessary to follow the directions below.

1. Download the Software

Please access the download URL or our T&D Website to download the software, following the directions below.

https://www.tandd.com/support/

2. Install the Software

Double click the downloaded software to start installation.

- Do not insert the battery or connect a Base Unit to a PC until installation of the software has been completed.
- In some network environments, it may be necessary to restart the PC. After restart, the PC will automatically continue the installation process; follow the instructions as they appear on the screen to complete installation.

3. Connect the Dongle to the PC

If you are using the Dongle for the first time, by connecting the Dongle to a USB port on the PC, the USB driver installation will start automatically.

- Do not connect the Dongle to your computer until the software has been installed.
- If nothing happens after connecting the Dongle to the computer, click the Quick Start icon [see step 1 in "Register as a Remote Unit"] and from the displayed menu, open [Help for Dongle Recognition Failure] to check the USB driver.

4. Install the Battery

Using "How to Install the Battery" shown at right as a guide, insert the attached battery into the "log-EZ" unit. Making sure that the unit is in [Registration Mode], move on to the next step [Register as a Remote Unit].

- When in [Registration Mode], the "CM" mark blinks in the LCD display. (The "CM" mark will also blink during communication with the PC after registering a Remote Unit.)
- Upon installation of the battery, the unit will automatically enter [Registration Mode] and after five minutes pass without any settings being made, [Registration Mode] will end.
- Make sure to only insert a battery into one unit at a time and to never try to register more than one unit at a time. Do not insert a battery into a multiple number of units at the same time.

5. Register as a Remote Unit

In order to carry out Wireless Communication, it is necessary to register the "log-EZ" as a Remote Unit.

Remote Unit registration can only be carried out when the unit is in [Registration Mode]. If the unit is no longer in [Registration Mode], remove and re-insert the battery.

After making sure that the unit has entered [Registration Mode] again, carry out the registration process.

- Click the Quick Start icon in the lower right of the screen (Task Tray).
- In the displayed menu, select [Register] to open the [Register as a Base Unit] window. Making sure that a Base Unit (dongle) is connected to the PC, click the [OK] button.
- When the [Register] window appears, click on the [Add a Remote Unit] button.
- Enter the desired Remote Unit Name and click on the [Assign Name] button.
- When the "Communication Failed" error message appears, see the detailed information written in red in the window or see [Troubleshooting] in the Software User's Manual for details about checking the Base Unit, Remote Unit, and network environment and retrying communication.
- The registered Remote Unit Name will be displayed in the Remote Unit List. Also, the name will appear in the communication route.
- After Remote Unit Registration has been completed, it is possible to communicate between a Base Unit and a Remote Unit.

The "log-EZ" is now ready to be used.

Before using the "log-EZ", make settings for the display format of the temperature and calendar from [Display Format Settings] in the Quick Start.

The unit of temperature settings can be made in either Celsius or Fahrenheit. The format of the calendar display can be set in either "Month/Day/Year" or "Day/Month/Year".

For instructions about how to use the "log-EZ" unit after this, see the User's Manual that comes with the software.

How to Open the User's Manual

Click the Quick Start icon. The User's Manual can be opened in PDF format from the displayed menu.

How to Install the Battery

1. Remove the battery cover from the back of the unit. Pressing on the cover area, slide the cover as shown above.
2. Check to make sure plus and minus are correct and insert the AA Alkaline battery.
3. Replace and close the battery cover. Be sure to close securely to make sure the cover until you hear a clicking sound.
- Please make sure that + and – are in the correct direction.
- Do not insert or replace batteries with wet hands.
- Once a battery has been installed, the unit will enter [Registration Mode] for five minutes for the first Remote Unit registration, and two minutes for battery replacement.
- Make sure to always use a new battery within that has not expired.

Changing a Battery

An Estimation of Battery Life

The battery is expected to last about six months. However, it varies depending on the frequency of wireless communication, measuring environment and quality of the battery being used, and in no way do we guarantee a battery's life.

Time for Battery Replacement

When it is time for the battery to be replaced, a battery life warning mark will appear. Once this mark starts blinking, it is not possible to carry out communication with a PC; therefore, please change the battery as soon as the mark appears.

After Battery Replacement

The unit will start measuring temperature and humidity when a battery has been replaced, and will enter [Registration Mode] for two minutes. If an old battery is inserted and the battery mark blinks, it will not be possible to communicate with a PC. Change the battery to a new one.

Notices about Wireless Communication

Note that after actual start of use, due to changes in environmental conditions, wireless communication errors may occur. If errors occur often, please check to see if any of the following apply: if, after having made sure all precautions have been followed, wireless communication errors still occur; it is recommended to add a Repeater to improve communication. If wireless communication errors occur, it is often difficult to predict the time of occurrence as it is affected by environment and quality of the battery being used, and in no way do we guarantee a battery's life.

Please place units more than 20 cm away from metals. If units are placed near such things as metal walls, floors, and stairs, the possible wireless communication range will be shortened, and more communication errors may occur.

Situations where concrete walls are present will adversely affect wireless communication. Concrete acts as a block to radio waves, and wireless communication errors may occur more frequently in situations where such walls are present.

Keep the units as far as possible away from other wireless communication devices. If multiple wireless communication devices (such as wireless LAN's and cordless phones) are being used, please be careful to maintain enough space between them and do not use them at the same time.

Keep the units as far as possible away from noise-emitting sources. Equipment, such as some industrial instruments, electronic devices or fluorescent lamps generates noise. Please place the units more than 1 meter away from such devices.