



T D RTR-322 Log-EZ Thermo Recorder Instruction Manual

[Home](#) » [T D](#) » T D RTR-322 Log-EZ Thermo Recorder Instruction Manual 

log-EZ

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Instruction Manual



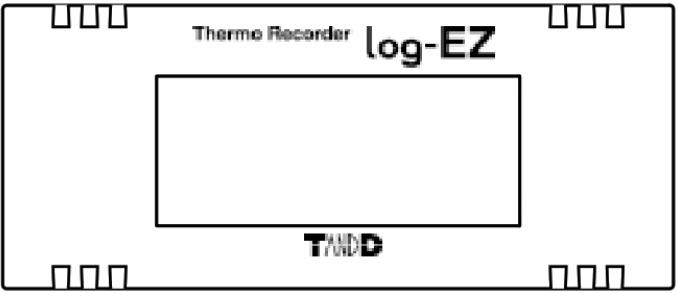
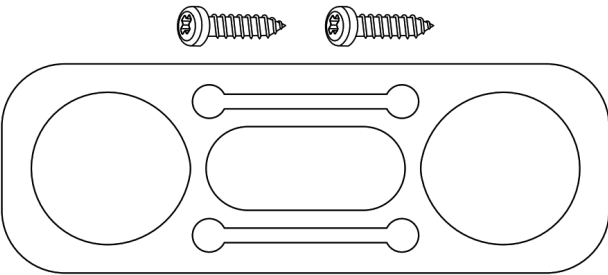


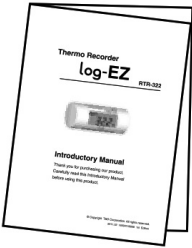
Thank you for purchasing our product. Carefully read this Introductory Manual before using this product.

Contents

- 1 Package Contents**
- 2 How to Use the Stand**
- 3 Safety Precautions and Instructions**
 - 3.1 Explanation of Warning Symbols**
- 4 Notices about this Manual and Disclaimers**
 - 4.1 Explanation of Picture Symbols**
- 5 Important Notice**
- 6 Compliance Information**
- 7 Outline**
- 8 Basic Functions**
- 9 About the Wireless Dongle (RTR-300)**
- 10 About Base Units and Remote Units**
- 11 Getting Ready**
- 12 The “log-EZ” is now ready to be used.**
 - 12.1 How to Open the User’s Manual**
- 13 How to Install the Battery**
- 14 Changing a Battery**
- 15 Notices about Wireless Communication**
- 16 Specifications**
- 17 Documents / Resources**
 - 17.1 References**
- 18 Related Posts**

Package Contents

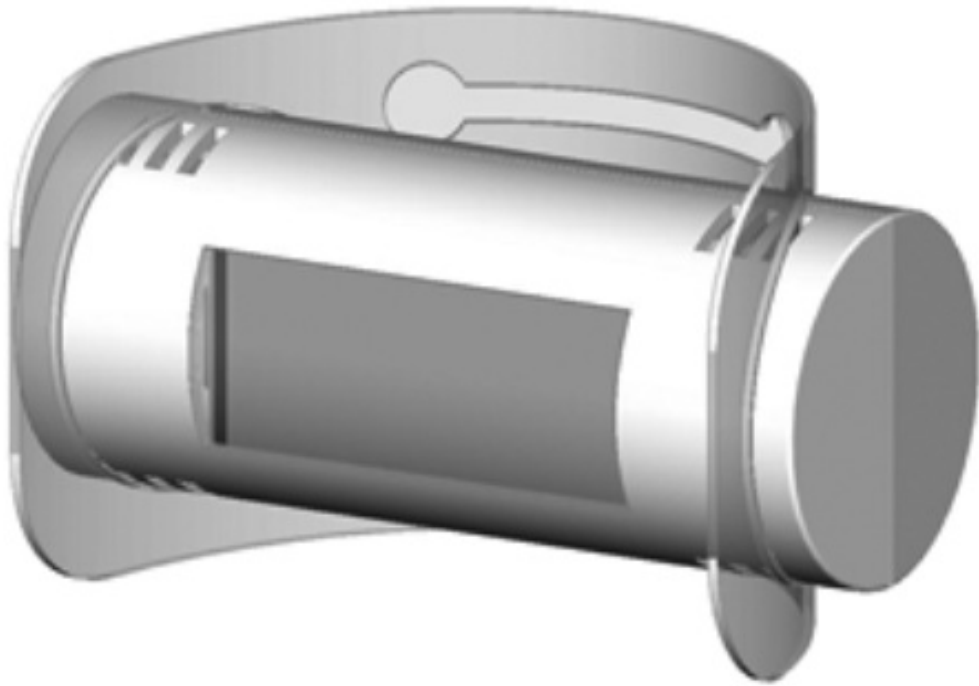
The following items are included in the package:

“log-EZ” Remote Unit (RTR-322)	Stand × 1 / Screw × 2	
		
Wireless Dongle Base Unit (RTR-300)	AA Alkaline Battery × 1	Introductory Manual (this document)
		

- Software is not included in the package. Please visit our T&D Website and download the software from the Support Page.
- The Wireless Dongle is only supplied in the Wireless Dongle Set.
- From hereafter in this manual, the “Wireless Dongle” will be referred to as “Dongle”.

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.

Explanation of Warning Symbols








 Danger	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.
 Caution	These entries are actions that if taken may lead to physical injury or damage to persons or things.

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 where you purchased the products or T&D Corporation to carry out any repairs.
	If any smoke, strange smells, or sounds are emitted from the Unit, Immediately remove the battery and stop using it. Continued use may cause fire, electrocution, or damage.
	This unit is not water-resistant. If water or a foreign object enters the case, immediately remove the battery and stop using it.
	Do not use any other batteries than those that are specified in this Manual. It may cause a fire or malfunction.
	Do not use and store the Unit in areas near fire or exposed to excessive heat.
	If water or a foreign object enters the case, immediately cease using it.
	Swallowing batteries are extremely dangerous. Store the Unit and batteries out of the reach of children.
	The “log-EZ” is a device to measure 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 situations where strict precautions are necessary such as in connection with medical equipment was directly or indirectly.
	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.
	Please make sure to use the latest version of the Software. The latest version can be downloaded free of charge from our T&D Website.
	Contact with oil may cause cracks to appear in the casing of the Unit. When using the Unit in environments where such oils are present, please ensure that it is protected from contact through the use of a polyethylene bag or other means.
	If the Unit is not to be used for a long period of time, for safety reasons please remove the battery. If left in the Unit, the battery may leak and lead to malfunctioning.

Notices about this Manual 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.

- All rights of this Introductory Manual belong to T&D Corporation. It is prohibited to use, duplicate and/or arrange a part or whole of the Manual without the permission of T&D Corporation.
- All registered trademarks, company names, product names, and logos mentioned herein or for products being used are the property of T&D Corporation or of their respective owners." TANDD", "T&D" and the logo of T&D Corporation are all registered property of T&D Corporation.
- Specifications, design, and other contents outlined in the Manual are subject to change without notice due to continual improvements.
- Please follow the safety precautions outlined in the 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 distributor from which 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 precautions are necessary such as in connection with medical equipment, were directly or indirectly.
- We are not responsible for any malfunction or trouble caused by the use of our product or for any problem caused by the use of measurement results of our product. Please be fully aware of this before using our product.
- This Introductory Manual cannot be reissued, so please keep it in a safe place.
- Please read the warranty and provisions for free repair carefully.





Explanation of Picture Symbols

	Denotes an important warning or caution.
	Denotes a forbidden action.
	Denotes an action that must be taken.

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










Danger

	Do not take apart, repair, or modify. It may cause electrocution or damage. Ask the place of purchase or T&D Corporation to carry out any repairs.
	Do not store, leave, or use in any places subject to high temperatures such as direct sunlight or near heating equipment, or extremely low temperatures.
	Make sure not to get it wet. If it does get wet, immediately stop using it. Do not use or store in humid places such as a bathroom.
	Do not use in or near the fire, nor directly put into cooking equipment such as a microwave oven or a high-pressure cooker.



Caution

	This is a precision piece of equipment. Do not expose it to strong impact or throw it.
	Before touching the “dongle” to install or remove, please first touch metal around you (steel desk, doorknob) to clear static electricity.
	Set and store out of the reach of infants.
	If and when a child is to use the product, make sure they are given proper instructions on how to use it.
	Do not touch with wet hands.
	Do not connect to a PC using a USB hub.
	This product is not for saving data.



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.



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.

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.

Outline

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 multiple numbers of "log-EZ" units with one computer. Convenient wireless communication makes data transmission easy and simple with no need for cables.



Usage Figure

Basic Functions

- The "log-EZ" measures and records the temperature and humidity of the location where it is placed.
- Recorded data can then be downloaded via wireless communication to a PC, on which the dedicated software has been installed and the data viewed in graph form.

- Even when the PC is off, the measuring and recording of temperature and humidity are carried out by the “log-EZ” unit.
- It is possible to save the recorded data to a PC, view the data in a graph, print it out, save it as a text file, and so on.
- By setting up a “log-EZ” unit as a Repeater, it is possible to extend the wireless communication range between other “log-EZ” units and a PC.
- It is possible to view data recorded by multiple “log-EZ” units via one computer. Up to 16 “log-EZ” units (Remote Units and Repeaters) can be registered on one computer.

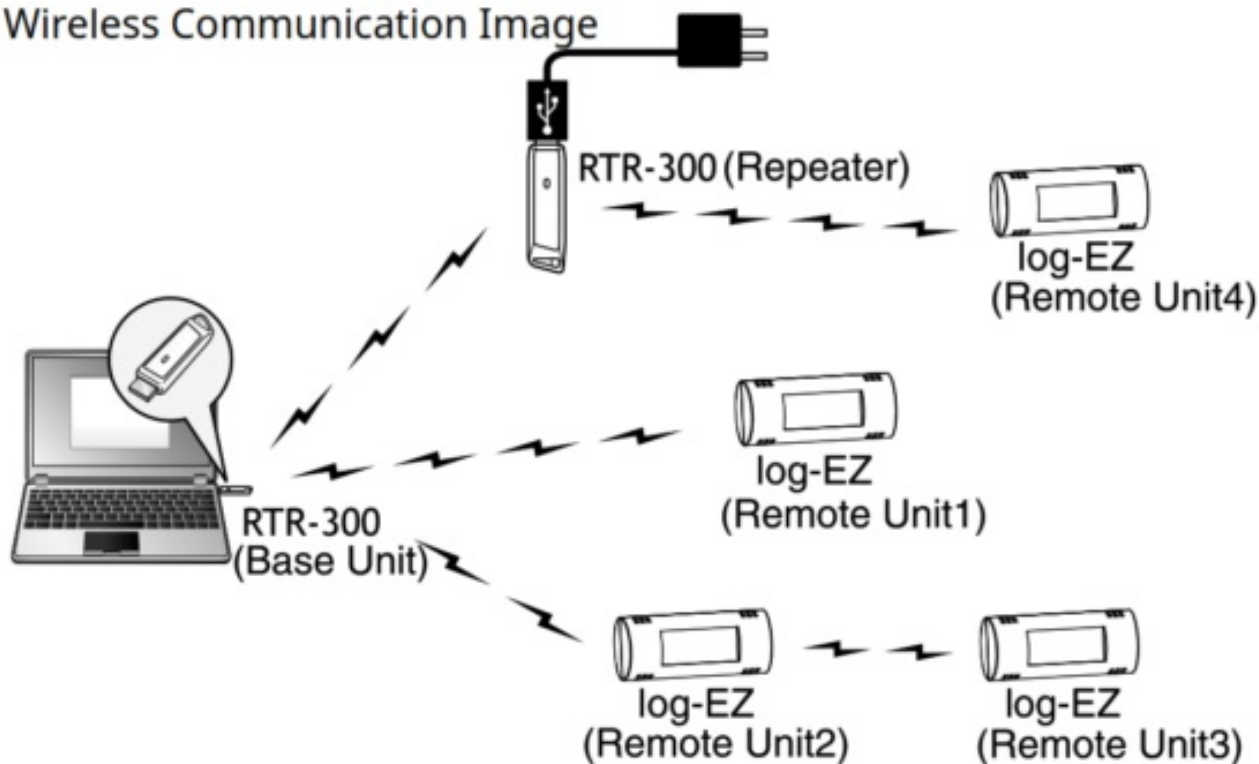
About the Wireless Dongle (RTR-300)

This is a USB device that allows for wireless communication between “log-EZ” units and a PC. Wireless communication is only possible when the “dongle” is inserted into the USB port of the PC. Please be careful not to lose or damage this important device. A “dongle” can also be connected to an AC adaptor (sold separately) and used as a Repeater.

About Base Units and Remote Units

In this Manual when explaining wireless communication, the “log-EZ” (RTR-322) is referred to as a “Remote Unit” and the “dongle(RTR-300) as a “Base Unit”.

Wireless Communication Image



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.

tandd.com/support/

2. Install the Software

Double click the downloaded software to start the installation.



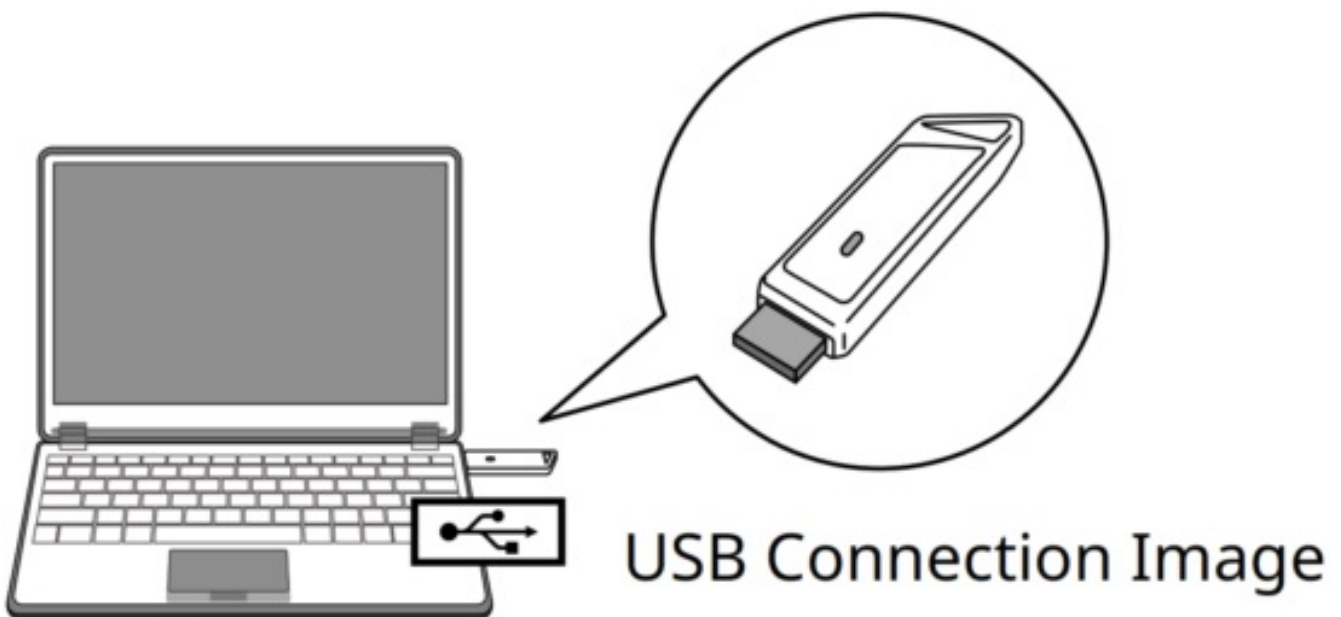
Do not insert the battery or connect a Base Unit to a PC until the installation of the software has been completed.



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 the 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 QuickStart icon (see step 1 in "Register as a Remote Unit"), and from the displayed menu, open [Help for Unit 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".



Registration Mode

- When in [Registration Mode], the “COM” mark blinks in the LCD Display. (The “COM” 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 if 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 multiple units at the same time.

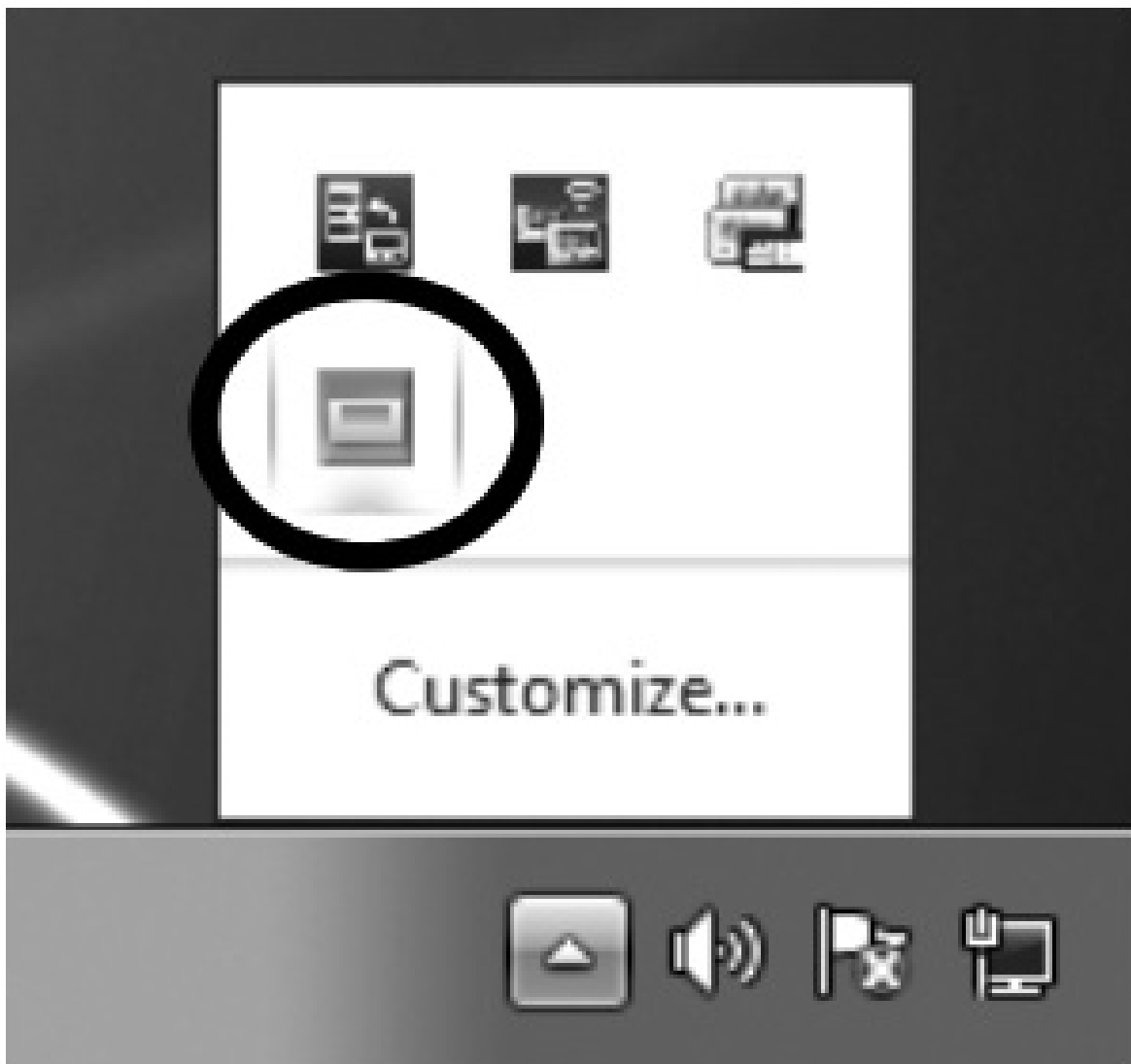
5. Register as a Remote Unit

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

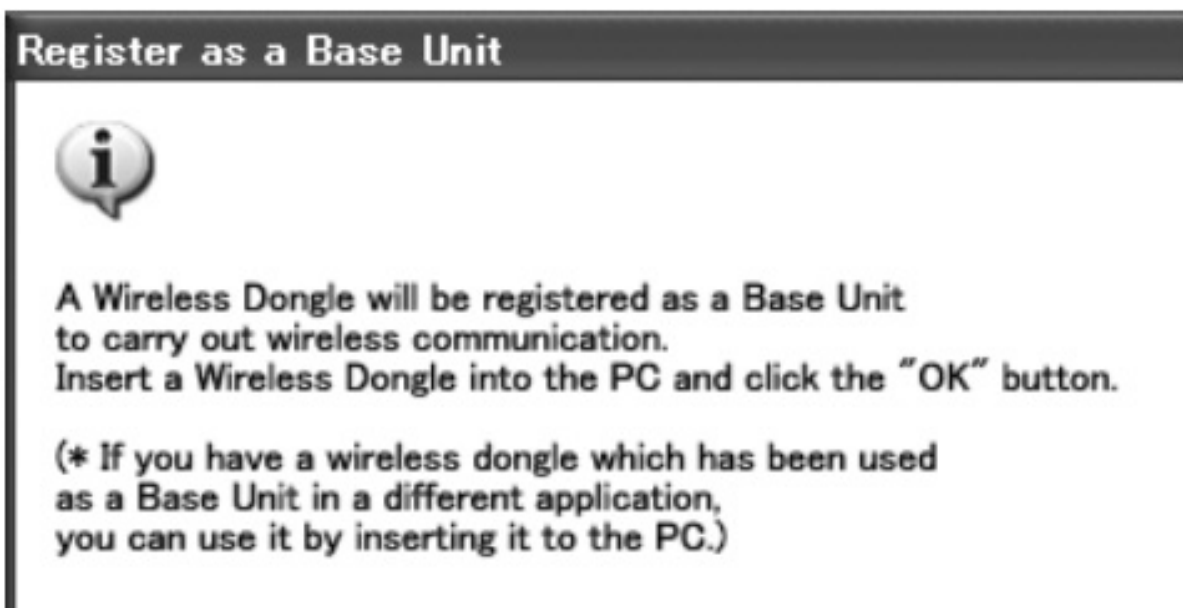


Remote Unit registration can only be carried out when the unit is in [Registration Mode]. If the unit is no longer in [Registration Mode], remove and re-insert the battery. After making sure that the unit has entered [Registration Mode] again, carry out the registration process.

6. Click the QuickStart icon in the lower right of the screen (Task Tray).



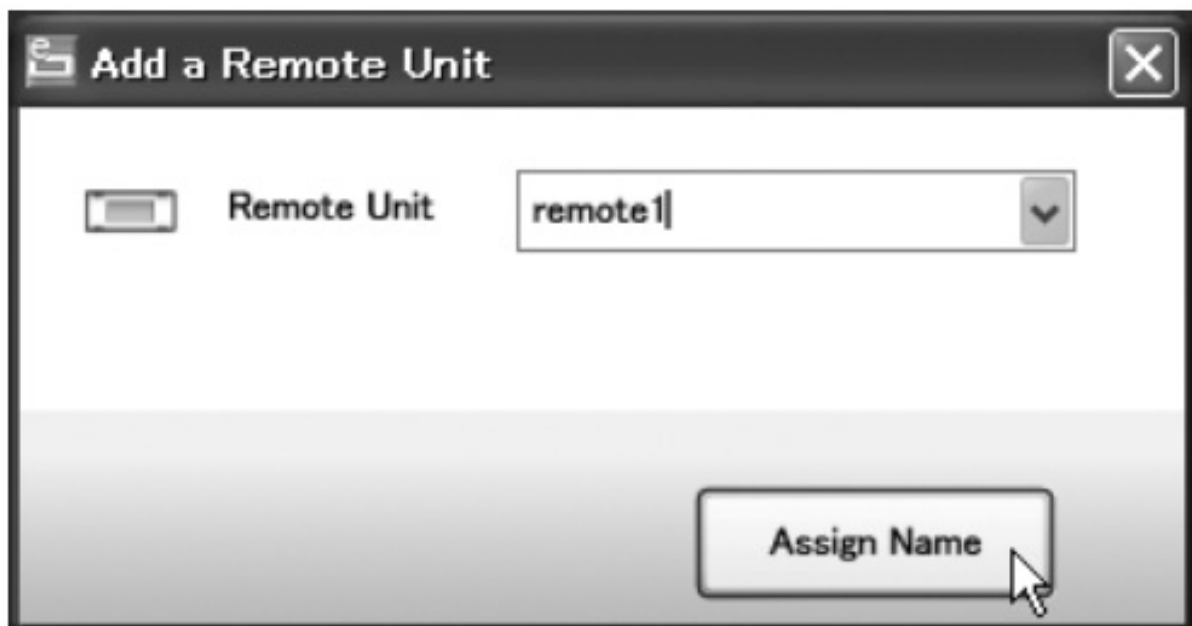
- In the displayed menu, select [Register] to open the [Register as a Base Unit] window. Make sure that a Base Unit (dongle) is connected to the PC, click the [OK] button.



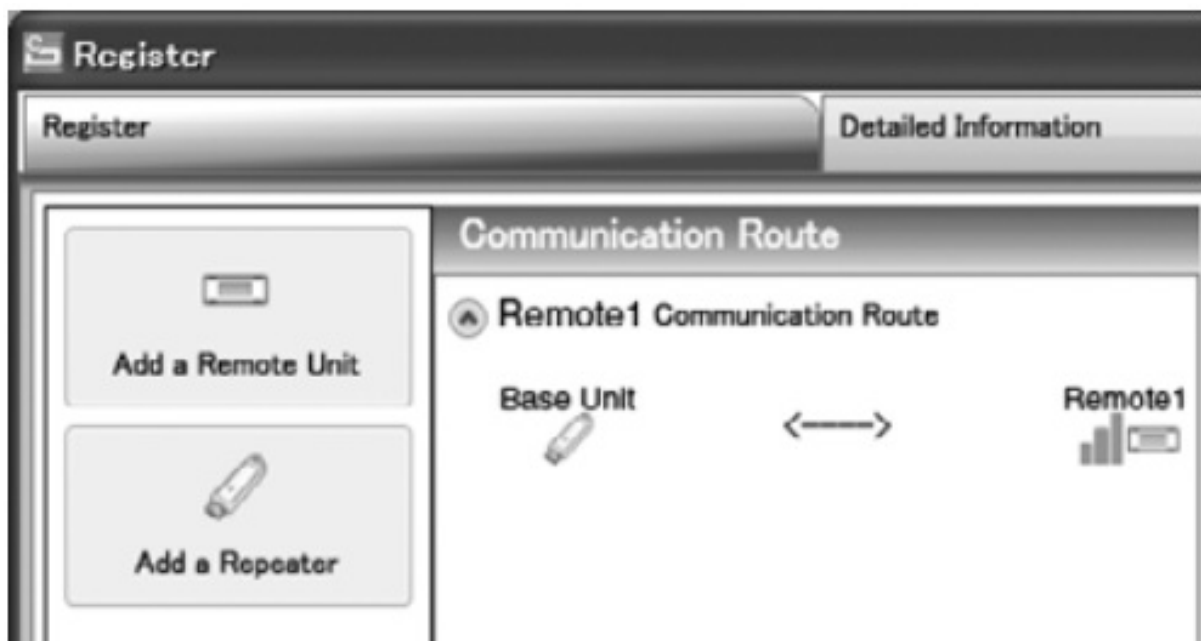
- When the [Register] window appears, click on the [Add a Remote Unit] button.



- Enter the desired Remote Unit Name and click on the [Assign Name] button.



- When the “Communication Failed” error message appears, see the detailed info 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 environments 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.

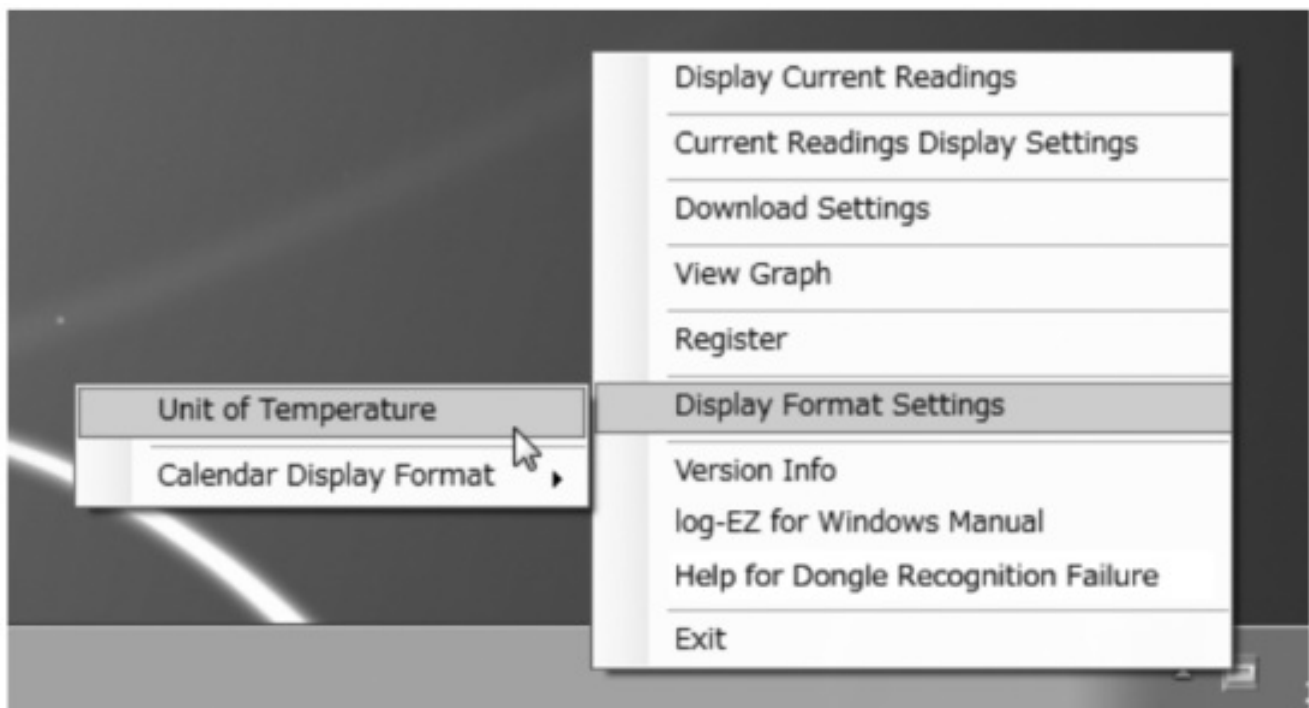


– After Remote Unit Registration has been completed, it is possible to communicate between a Base Unit and a Remote Unit.

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 QuickStart.

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”.




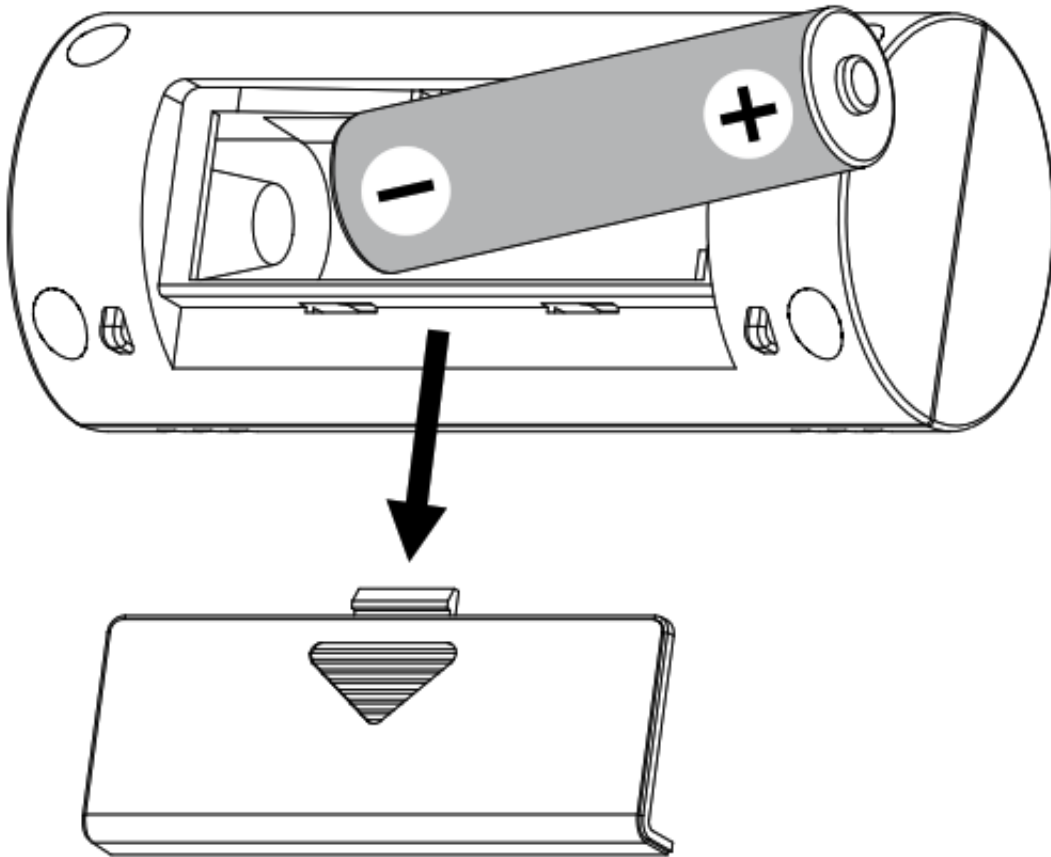
For instructions about how to use the “log-EZ” unit after this, see the User’s Manual that comes with the software.

How to Open the User’s Manual

Click the QuickStart 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 the  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 securely close the cover until you hear a clicking sound.



Remove the cover to insert the battery

- 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 that has not expired.

Changing a Battery

An Estimation of Battery Life

The battery life expectancy is 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



Battery Warning Mark

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, that battery cannot be used to communicate with a PC. Change the battery to a new one.

Notices about Wireless Communication

Note that after the 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 quite often, battery life will also be shortened.

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 LANs 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.

Specifications

“log-Er RTR-322			
Measurement Items		Temperature	Humidity
Measurement Range		0 to 50°C	15 to 90%RH
Display Resolution		0.1°C	1%
Accuracy		±0.5°C (0 to 50°C)	±5%RH (At 25°C 50%RH)
LCD Refresh Interval		1 sec.	
Recording Interval		10 min. (Fixed)	
Logging Capacity *1		1,440 data sets (One data set consists of readings for temperature and humidity).	
Operation Mode	Registration Mode	After inserting battery: 5 min. (For First Remote Unit Registration) / 2 min. (For Battery Replacement)	
	Recording Mode	Overwrite the oldest data when capacity is full	
LCD Display Items		Measurement and Recording Status / Amount of Recorded Data / Communication Status / Recording Mode / Battery Life Warning / Measurements (Temperature and Humidity: alternating display) / Unit of Measurement	
Communication Method		Wireless Communication (internal antenna) between “log-EZIRTR-322) and “Dongle”(RTR-300)	
Dimensions		Tubular Shape: Dia 36mm x L 85mm	
Weight		Approx. 40 g	


Power	AA Alkaline Battery LR6 x 1
Battery Life	About 6 months *2
Radio Standard Specifications	FCC Part15 Section247 / IC RSS-210 / ETSI EN 300 440-2 (Frequency Range: 2433 to 2482MHz)
Wireless Communication Range	About 50 meters [160ft] (if unobstructed and direct)
Operating Environment	Temperature: 0 to 50°C / Humidity: 90%RH or less (without condensation)
Maximum Number of Registrations	16 units (number of log-EZ and repeater dongles)
Software *3	PC Software (Windows) log-EZ for Windows
Wireless Dongle RTR-300	
Dimensions	L79.5 x W19.5 x D9.4 (mm)
Weight	Approx. 10 g
Power	USB Bus Power (5V)
Wireless Specifications	FCC Part15 Section247 / IC RSS-210 / ETSI EN 300 440-2 (Frequency Range: 2433 to 2482MHz)
Wireless Communication Range	About 50 meters [160ft] (if unobstructed and direct)
Operating Environment	Temperature: 0 to 50°C / Humidity: 90%RH or less (without condensation)
Interface	USB

1. Logging Capacity is the amount of data that can be logged in the unit; when the capacity is full, the oldest data is overwritten and recording continues. In order to store data continually, a PC is needed to receive data.
2. Battery life varies depending upon the measuring environment, frequency of communication, and battery performance. (Example: If used at an interval of 1 min. to collect current readings, battery life expectancy is about 1.5 months.)
3. Free software download and information on OS compatibility is available on the Software page of our website at tandd.com/software/.

The specifications listed above are subject to change without notice.

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Documents / Resources

	T D RTR-322 Log-EZ Thermo Recorder [pdf] Instruction Manual RTR-322, Log-EZ Thermo Recorder
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References

-  [Software/Apps | T&D Corporation](#)

-  [Support | T&D Corporation](#)

Manuals+.