



## T D RTR501B Data Logger User Manual

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# T&D

Network Base Station  
RTR500BW User's Manual

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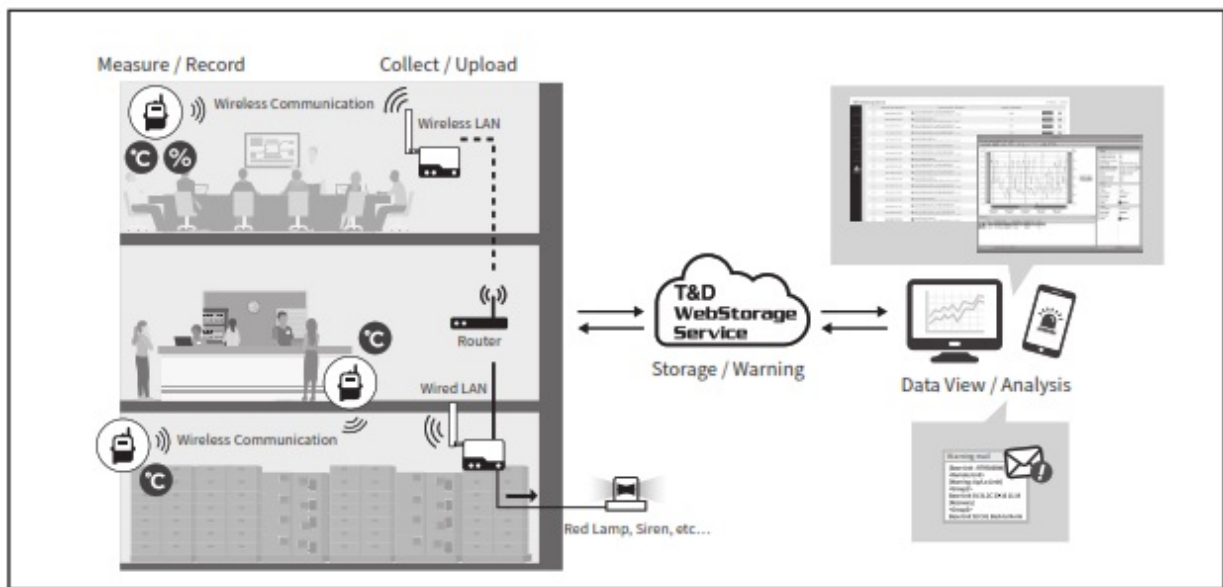
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### RTR501B Data Logger

Thank you for purchasing our product. This document describes basic settings and simple operations for using this product with T&D Web Storage Service. For information about the SIM card and device preparation, please refer to [RTR500BM: Getting Ready].

#### **What can the RTR500BM do?**

The RTR500BM is a Base Unit supporting 4G mobile network. Measurement data gathered via wireless communication from target Remote Units can be automatically uploaded to our cloud storage service "T&D Web Storage Service". Remote monitoring, warning monitoring and device settings can also be carried out via the cloud. Also equipped with Bluetooth® and USB functions, it can be set on either a smartphone or a PC.



For details about using without the cloud service and for other operational info, please see the RTR500B Series HELP. [tanadd.com/support/webhelp/rtr500b/eng/](https://tanadd.com/support/webhelp/rtr500b/eng/)



<https://tanadd.com/support/webhelp/rtr500b/eng/>

## Product Specifications

Compatible Devices	Remote Units: RTR501B / 502B / 503B / 505B / 507B RTR-501 / 502 / 503 / 507S / 574 / 576 / 505-TC / 505-Pt / 505-V / 505-mA / 505-P (*1) (including L Type and S Type) Repeaters: RTR500BC RTR-500 (*1)
Maximum Number of Registrations	Remote Units: 50 units Repeaters: 10 units x 4 groups
Communication Interfaces	Short Range Wireless Communication Frequency Range: 869.7 to 870MHz RF Power: 5 mW Transmission Range: About 150 meters (500 ft) if unobstructed and direct Wired LAN (RJ45 connector 100 Base-TX/10 Base-T) Wireless LAN (IEEE 802.11 a/b/g/n, WEP(64bit/128bit) / WPA-PSK(TKIP) / WPA2-PSK(AES)) Bluetooth 4.2 (Bluetooth Low Energy) For settings USB 2.0 (Mini-B connector) For settings Optical Communication:(proprietary protocol)
Communication Time	Data Download Time (for 16,000 readings) Via wireless communication: About 2 minutes An additional 30 seconds should be added for each Repeater. (*2)
External Output Terminal	Photo MOS Relay Output OFF-State Voltage: AC/DC 50V or less ON-State Current: 0.1 A or less ON-State Resistance: 35Ω
Communication Protocol (*3)	HTTP, HTTPS, FTP, SNMP, DHCP
Power	AC Adaptor: AD-05C1 PoE (IEEE 802.3af)
Dimensions	H 83 mm x W 102 mm x D 28 mm (excluding antenna) Antenna Length: 115 mm
Weight	Approx. 130 g
Operating Environment	Temperature: -10 to 60°C Humidity: 90%RH or less (without condensation)
Software	PC Software (Windows) (*4) RTR500BW for Windows, T&D Graph, T&D Data Server Mobile Application (iOS) T&D 500B Utility (For compatible OS versions, please refer to the Software page of our website at <a href="http://tandd.com/software/">tandd.com/software/</a> )

\*1: RTR-500 Series loggers and Repeaters do not have Bluetooth capability.

\*2: When using RTR500BC as Repeater. Depending upon conditions it may take up to an additional 2 minutes.

\*3: Client Function. Communication via proxy is not supported.

\*4: For installation, it is necessary to have Administrator (Computer Administrator) rights.

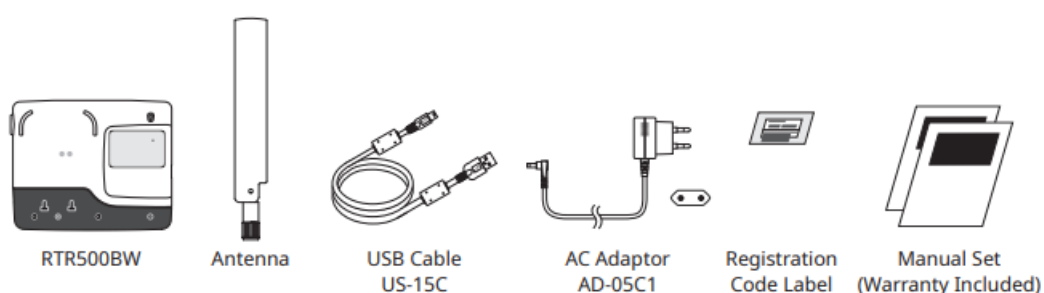
The specifications listed above are subject to change without notice.

**Terms used in this Manual**

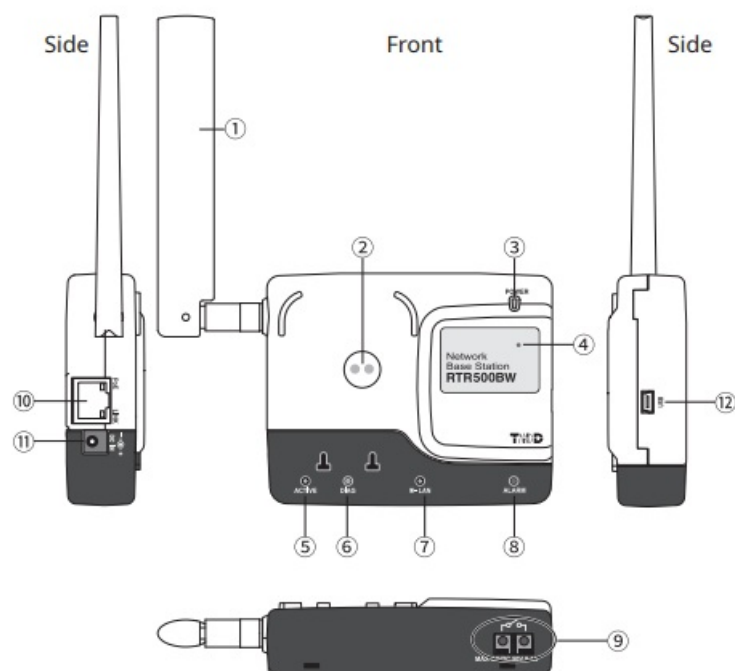
Base Unit	RTR500BM
Remote Unit	RTR501B / 502B / 503B / 505B / 507B, RTR-501 / 502 / 503 / 505 / 507S / 574 / 576
Repeater	RTR500BC/ RTR-500 (when used as a Repeater)
Current Readings	The most recent measurements recorded by a Remote Unit
Recorded Data	Measurements stored in the Remote Unit
Wireless Communication	Short Range Radio Communication

## Package Contents

Before using this product, please confirm that all of the contents are included.



## Part Names















1. Antenna
2. Optical Communication Area
3. Power LED (green)
4. Bluetooth Communication LED (blue)

**ON:** Bluetooth Communication is set to ON

**BLINKING:** Bluetooth Communication in progress...

5. ACTIVE LED (green)
6. DIAG LED (orange)
7. W-LAN LED (green)
8. Warning LED (red)
9. External Output Terminal
10. LAN Connector
  - PoE (orange) ON: recharging
  - LINK (green) Blinking: connected to LAN
11. AC Adaptor Jack
12. USB Connector

## About the LED Display

<b>LED Status</b>    <b>ON BLINKING OFF</b>	<b>Details</b>
 <b>ACTIVE</b>	<ul style="list-style-type: none"><li>• Network communication available</li><li>• Connected via USB</li></ul>
 <b>ACTIVE</b>	<ul style="list-style-type: none"><li>• Communication in progress...</li></ul>
 <b>DIAG</b>	<ul style="list-style-type: none"><li>• Initializing after power on</li><li>• Network transmission failure</li></ul>
  <b>ACTIVE DIAG</b>	Autonomic operation stopped <ul style="list-style-type: none"><li>• Time acquisition failure or time has not been set</li><li>• No Remote Units have been registered</li><li>• No settings for autonomic operations such as warning monitoring and sending current readings have been made.</li><li>• If other settings are incomplete</li></ul>
  <b>ACTIVE DIAG</b>	<ul style="list-style-type: none"><li>• Unable to connect to the wireless LAN access point.</li><li>• IP address cannot be received from DHCP server</li></ul>
 <b>W-LAN</b>	<ul style="list-style-type: none"><li>• Wireless LAN Communication Possible (Wired LAN Communication not available)</li></ul>
 <b>ALARM</b>	Warning Issued <ul style="list-style-type: none"><li>• One of the following warnings was issued: Upper or Lower Limit Exceeded, Wireless Communication Error, Sensor Error, Low Battery</li></ul>

## Terms used in this Manual

Base Unit	RTR500BW
Remote Unit	RTR501B / 502B / 503B / 505B / 507B, RTR-501 / 502 / 503 / 505 / 507S / 574 / 576
Repeater	RTR500BC/ RTR-500 (when used as a Repeater)
Current Readings	The most recent measurements recorded by a Remote Unit
Recorded Data	Measurements stored in the Remote Unit

## Settings: Making via smartphone

### Installing the Mobile App

Download and install “T&D 500B Utility” from the App Store on your mobile device.



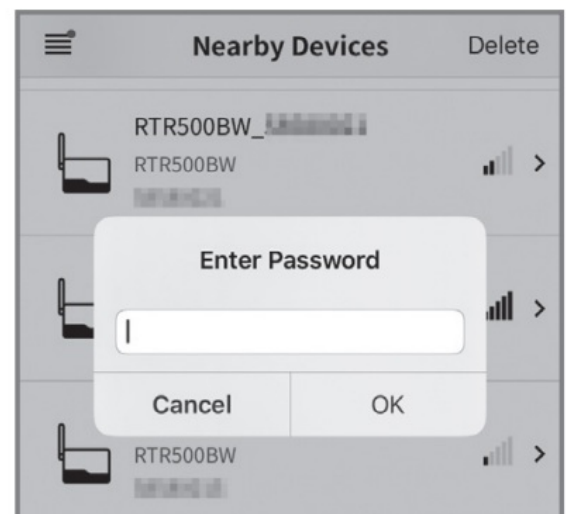
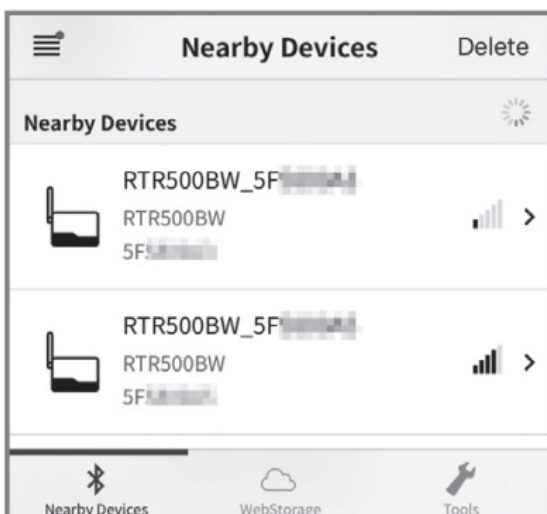
<https://www.tandd.com/software/td-500b-utility.html>

\* The app is currently available for iOS only. For details use the QR code to visit our website.

### Registering as a Base Unit

1. Open T&D 500B Utility.
2. Connect the Base Unit with the supplied AC adaptor to a power source.
3. From the list of [Nearby Devices] tap the one you wish to use as a Base Unit; the Initial Settings wizard will open.

The factory default password is “password”.



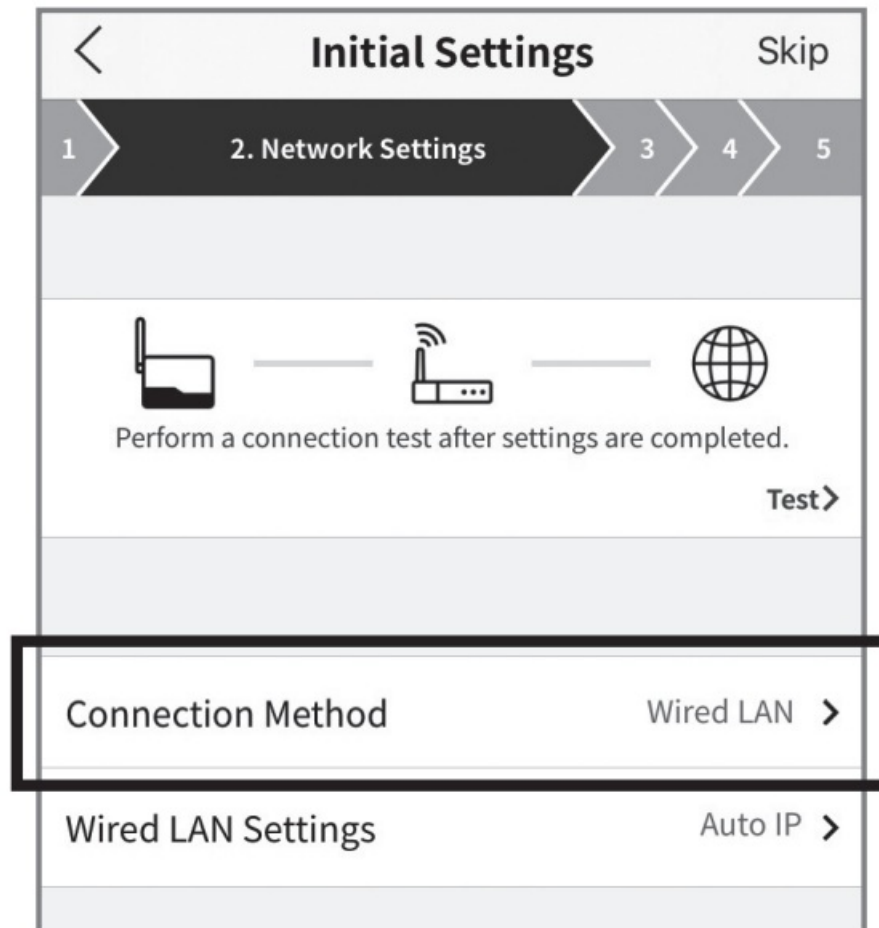
4. Enter the following information in the [Basic Settings] screen and click the [Next] button.

Base Unit Name	Assign a unique name for each Base Unit.
Base Unit Password	Enter a password here for connecting to the Base Unit via Bluetooth or LAN.

\* If you forget the password, reset it by connecting the Base Unit to a PC via USB. See STEP 2 of [Settings: Making via PC] on the back of this page.

### **Making Network Settings**

1. Under [Connection Method], select wired LAN or wireless LAN and make the necessary network settings.



2. When using a Wireless LAN:

Tap [WLAN Settings] and enter the appropriate settings for SSID, Security Mode and Password. Network settings can be made in the following three methods.

Add by Search	The app will search for available nearby access points and display them in a list Select the desired access point and enter the password if necessary.
Add Manually	Edit settings to make new settings or change some previous settings
Add from History	Previously made settings can be partially edited.

3. Connect the Base Unit to the wired or wireless LAN.
4. Test the connection.

If you trouble connecting to a network, or if you do not know the network settings, ask your network administrator.  
Registering a Base Unit to T&D Webstore Service  
Enter the User ID and Password for T&D Webstore Service to which you wish to have data sent to, and tap the [Add this Account] button.

< Initial Settings Skip

1 2 3. WebStorage Settings 4 5

Log in to T&D WebStorage Service, and register a device.

**T&D WebStorage Service**

User ID tbxx####

Password Registered Password

Add this account

Forgotten your password? >

Register a new user >

\* If you do not already have an account, create one from [Register a new user].

### **Registering a Remote Unit**

1. From the list of detected nearby Remote Units, tap the Remote Unit you wish to register to this Base Unit in STEP 2.
2. Enter the necessary info such as Remote Unit Name, Recording Interval, Frequency Channel\* and the Remote Unit Passcode; then tap the [Register] button.



**Initial Settings** Skip

1 2 3 **4. Remote Unit Registration** 5

**Register Remote Unit(s)**

Detected Remote Units RTR503B(5F840102)

Remote Unit Name	RTR503B_5F840102
------------------	------------------

**Rec Interval** 10min. (Endless) >

Recorded data in the device will be reset upon registration and recording will automatically start using these settings.

**Frequency Channel** 0 >

Set the frequency channel for wireless communication between Base and Remote Units

**Remote Unit Passcode** 1234

Set the passcode for connecting to Remote Units via Bluetooth.

\* When more than one Base Unit is registered, make sure to select channels that are far apart in order to prevent interference of wireless communication between the Base Units.

The Remote Unit passcode is used when communicating with the Remote Unit via Bluetooth. Enter an arbitrary number of up to 8 digits. When registering subsequent Remote Units and there is only one registered passcode, the set passcode will be displayed as already entered and you can skip entering the passcode.

3. If you wish to register multiple Remote Units, tap [Register the next Remote Unit] and repeat the registration process as necessary. To complete the registration of Remote Units, tap [Finish registration].
  - It is also possible to register Remote Units using optical communication.
  - To register RTR-574(-S) and RTR-576(-S) loggers as Remote Units it is necessary to use a PC. See Step 5 of [Settings: By PC] on the back of the printed version of this document.
4. Upon completion of the Initial Settings wizard, log into the T&D WebStorage Service with a browser and confirm that measurements of the registered Remote Unit(s) are displayed in the [Data View] window.

Upon completion of registration, recording will automatically start using the following default settings. These can be changed in each setting screen.

- Current Readings Transmission ON, Sending Interval: 10 min.
- Recorded Data Transmission ON, Send at 6:00 am every day.

For information about registering a Repeater, refer to [Using as a Repeater] in the RTR500BC User's Manual.

**Installing the Device**

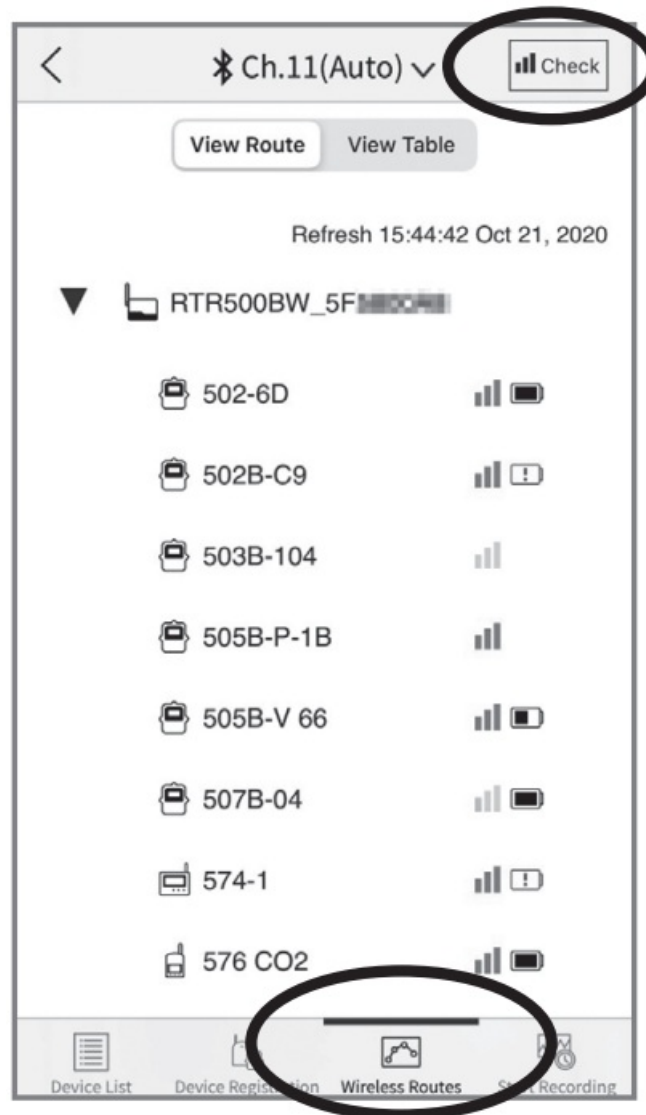
1. Place the device in the measurement location.

\* The wireless communication range, if unobstructed and direct, is about 150 meters (500ft.).

2. In the Settings Menu, tap on the [Device List] menu.

3. At the bottom of the screen tap on the [Wireless Routes] tab. Here it is possible to check the route for wireless communication.
4. At the top right of the screen, tap on the [Check] button.
5. Select the devices for which you wish to check the signal strength and tap on the [Start] button.
6. After testing signal strength, return to the wireless route screen and confirm the signal strength.

\* If a Repeater is part of your installation, you can also check the signal strength of the registered Repeaters.



## Settings: Making via PC

### Installing the Software

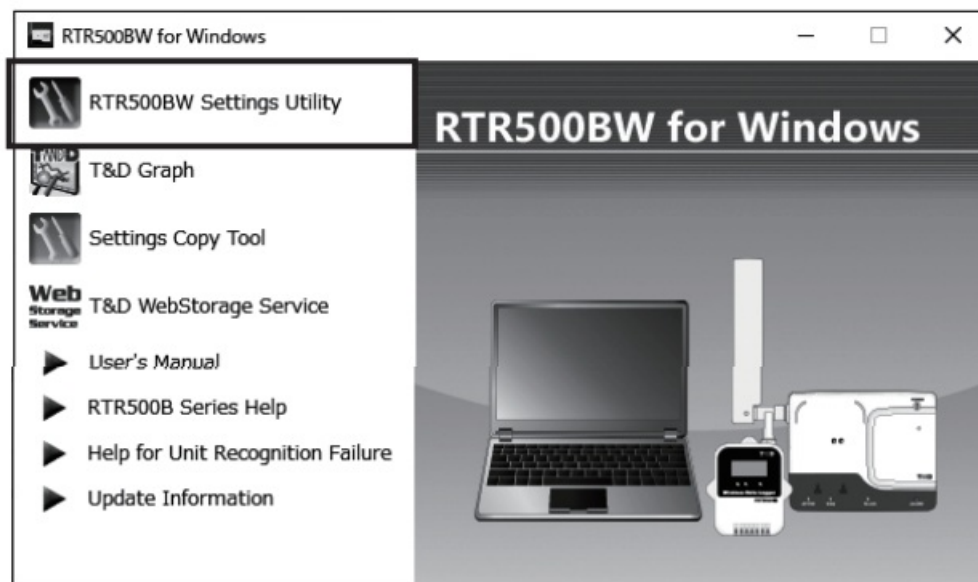
Download RTR500BW for Windows from the T&D Website and install it to your PC.

\* Do not connect the Base Unit to your computer until the software has been installed.

[tandd.com/software/rtr500bwwin-eu.html](http://tandd.com/software/rtr500bwwin-eu.html)

### Making Initial Settings for the Base Unit

1. Open RTR500BW for Windows, and then open RTR500BW Settings Utility.

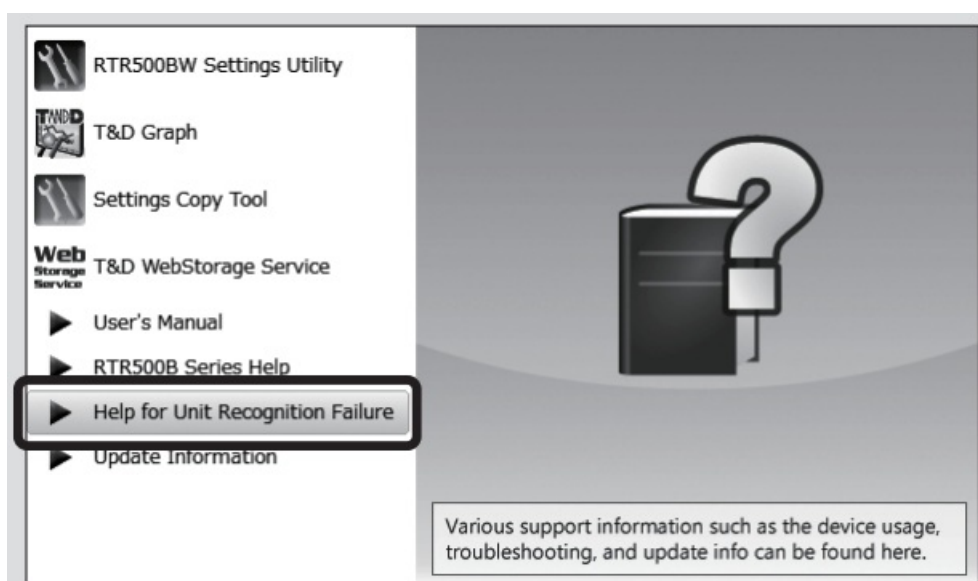


2. Connect the Base Unit with the supplied AC adaptor to a power source.

3. Connect the Base Unit with the supplied USB cable to your computer. The USB driver installation will start automatically. When the USB driver installation is completed, the settings window will automatically open.

If the settings window does not appear automatically:

The USB driver may not have been installed correctly. Please see [Help for Unit Recognition Failure] and check the USB driver.



4. Enter the following information in the [Base Unit Settings] window.

Base Unit Settings	Base Unit Name	RTR500BW_
Remote Unit Settings	Base Unit Description	
Repeater Settings	Unit of Temperature (°F / °C)	°F
Wireless Route Settings	Connection Password	••••••••
View Group Settings	Bluetooth	ON
Clock Settings		
Network Settings		
FTP Settings		

Base Unit Name	Assign a unique name for each Base Unit.
Connection Password	Enter a password here for connecting to the Base Unit via Bluetooth or LAN. <ul style="list-style-type: none"> <li>The factory default password is “password”.</li> </ul>

- Check the contents of your selections and click the [Apply] button.
- In the Settings Window under [Clock Settings], click the Current Time column to make settings in the Base Unit.
- Check the contents of your selections and click the [Apply] button.

## Making Network Settings

- In the Settings Window, from [Network Settings] – [Connection Method], select [Wired LAN] or [Wireless LAN] .
- When using a Wireless LAN: Make settings for [DHCP] \*1 , [Wireless LAN SSID] \*2 , [Security Mode] \*3 ,and [Pre-Shared Key(password)].

\* 1: Normally, there is no need to change the DHCP settings. Settings can be made according to the network environment being used.

\* 2: You can select the access point from the drop down list of detected wireless access points.

\* 3: Normally, there is no need to change the Security Mode.

Base Unit Settings	Connection Method	Wireless LAN
Remote Unit Settings	DHCP	ON
Repeater Settings	Communication Port Number	62500
Wireless Route Settings	Wireless LAN SSID	XXXXXXXXXX-XXXXXX-XXXXXX-XXXXXX-XXXXXX-XXXXXX
View Group Settings	Security Mode	WPA2-AES
Clock Settings	Pre Shared Key	●●●●●●●●
Network Settings		
FTP Settings		
HTTP(S) Settings		
Current Readings / Warning Settings		
Recorded Data Transmission Settings		
Transmission Tests		

- Check the contents of your selections and click the [Apply] button.
- Perform a transmission test by selecting the [Transmission Test] menu – [Test Transmission of Current Readings] button.

If the test fails, refer to the explanation and error code shown on the screen, and check the Network Settings again.

• Upon completion of the above, the following default settings will be applied.

Changes can be made, if necessary, from the Settings Window.

Current Readings Transmission: ON, Sending Interval: 10 min.

Recorded Data Transmission : ON, Once daily (triggered by and depending on the time of first communication between the Base Unit and the mobile or Windows app)

## Registering a Base Unit to T&D Webstore Service

1. Open your web browser and log in to T&D Webstore Service.

If you have not already registered as a User, use the above URL and carry out a New User Registration.

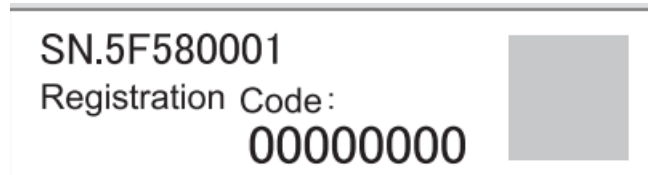
[webstorage-service.com](http://webstorage-service.com)

2. From the screen's left-side menu, click [Devices].

3. In the upper right of the screen, click on [ Device]

4. Enter the serial number and registration code for the Base Unit, then click [Add].

The serial number and registration code can be found on the Registration Code Label provided with the product.



If you have lost or misplaced the Registration Code Label, you can check it by connecting the Base Unit to your computer via USB and selecting [Settings Table]

- [Base Unit Settings] in the RTR500BW Settings Utility.

When registration is complete, the registered device will be displayed in a list on the [Device Settings] screen, and it will be shown to be in waiting for its first communication.

## Registering a Remote Unit

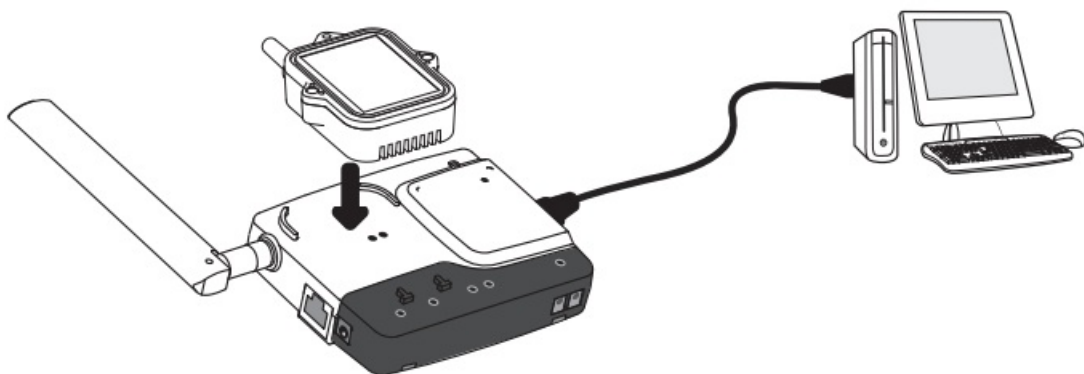
1. Have the target data logger on hand and in the [Remote Unit Settings] window click on the [Register] button.

2. Follow the on-screen instructions and connect the Remote Unit to the RTR500BW.

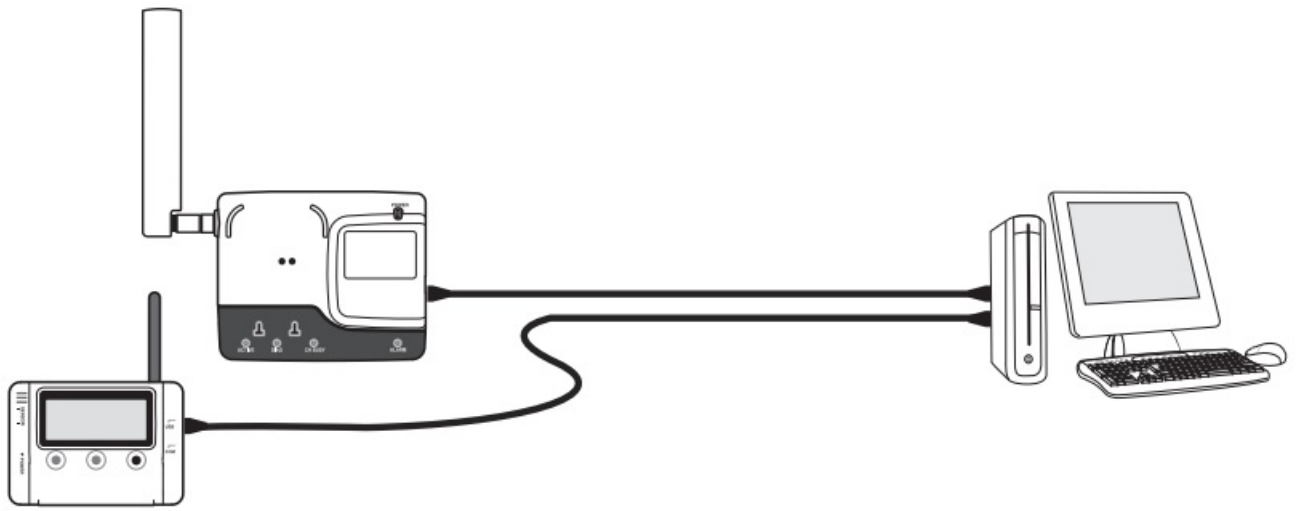
Upon recognition of the logger the [Remote Unit Registration] window will appear.

Optical Communication by placing Remote Unit on RTR500BW:

Make sure the optical communication area faces down and is aligned with the optical communication area of the Base Unit.



For RTR-574/576 units, connect directly to PC with a USB cable.



**If the screen does not change after connecting RTR-5 / 5 :**

The USB driver installation may not have been installed correctly. Please see [Help for Unit Recognition Failure] and check the USB driver.

3. Enter the following information, and click [Register].



Upon Remote Unit Registration, changes in Recording Interval, and the starting of a new recording, all recorded data stored in the Remote Unit will be deleted.

Wireless Group	Enter a name for each Group to make it identifiable depending on which frequency channel it is using. If you wish to register a logger to an already registered Group, select the name of the target Group.
Remote Unit Name	Assign a unique name for each Remote Unit.
Communication Frequency Channel*	Select a frequency channel for wireless communication between the Base Unit and Remote Units. When more than one Base Unit is registered, make sure to select channels that are far apart in order to prevent interference of wireless communication between the Base Units.
Recording Mode Endless mode	Upon reaching logging capacity, the oldest data will be overwritten and recording will continue.
Recording Interval	Select the desired interval.
Warning Monitoring	To carry out Warning Monitoring, select "ON". Settings can be made in each Remote Unit for "Upper Limit" or "Lower Limit" and for "Judgment Time".
Auto Transmission of Recorded Data	To enable auto download and transmission of recorded data, select "ON".
Channels for Alternating Display	Here you can select the measurement items you wish displayed in the RTR-574 LCD when the unit is using "Alternating Display" as the display mode.
Button Lock	To lock the operation buttons on RTR-574/576 units, select "ON". Only the <DISPLAY> button will be functional for Remote Units when the button lock has been set to ON.
Bluetooth	When making settings from the smartphone app make sure that Bluetooth is set to ON.
Bluetooth Passcode	Assign an arbitrary number with up to 8 digits to be used for Bluetooth communication.

\* This setting can only be made when creating a new wireless group. Once a Registration has been made, changes cannot be made. If you wish to make changes to the communication frequency channel, you need to delete and re-register the Remote Unit to a new wireless group.

Below are some examples of recording intervals and maximum recording times.

RTR501B / 502B / 505B (Logging Capacity: 16,000 readings)

EX: Recording Interval of 10 minutes x data readings of 16,000 = 160,000 minutes or about 111 days.

RTR503B / 507B / RTR-574 / 576 (Logging Capacity: 8,000 readings)

EX: Recording Interval of 10 minutes x data readings of 8,000 = 80,000 minutes or about 55.5 days.

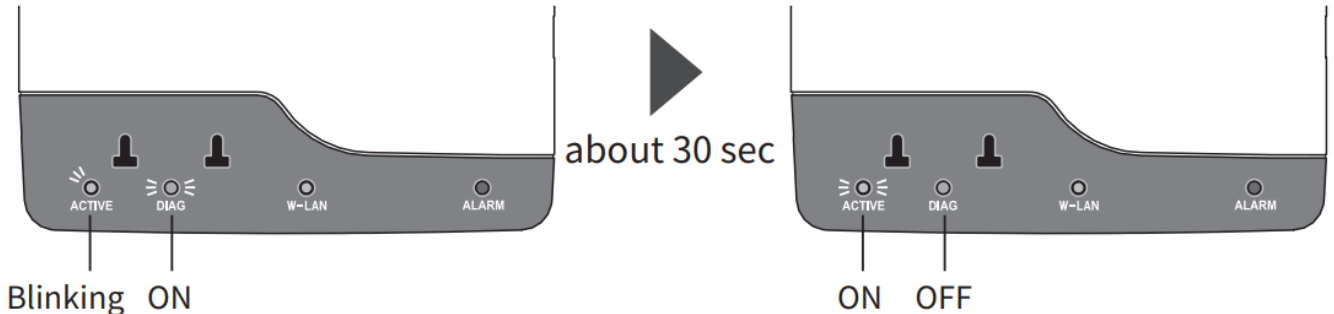
4. Upon completion of Remote Unit Registration, the logger will automatically start recording. If you wish to register other Remote Units, repeat procedures to .

If you want to start recording at a desired time, open the [Remote Unit Settings] window, and click the [Start

Recording] button to start a new recording session.

## Installing the Device

1. Connect the Base Unit to the wired or wireless LAN. If the target Base Unit is connected to a PC, disconnect the USB cable.
2. Connect the Base Unit with the supplied AC adaptor to a power source.

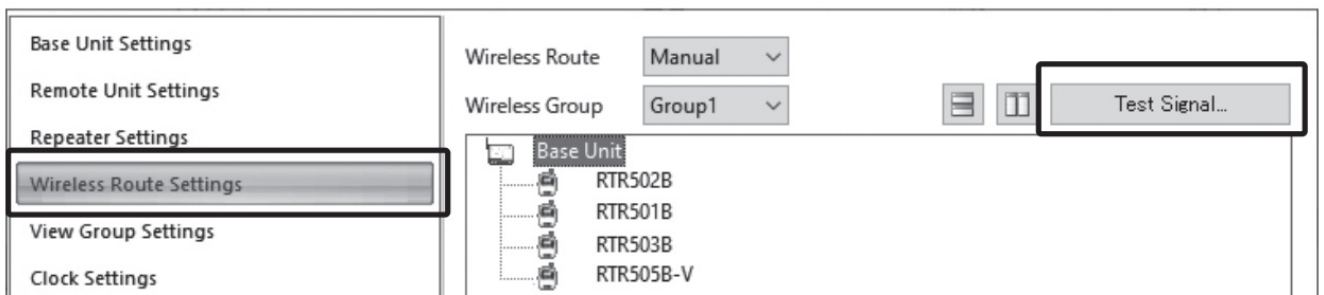


- \* You will know network connection was established when <ACTIVE> on the LED changes from blinking to lit.
- \* If <ACTIVE> and <DIAG> are both blinking, wireless LAN communication has failed; so please recheck the settings.

3. Place the device in the measurement location.

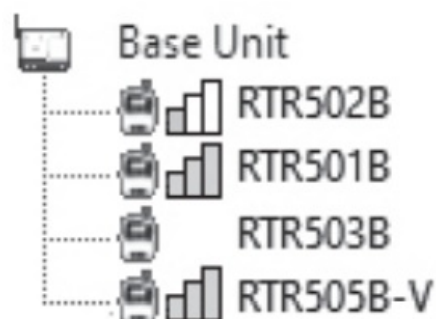
The wireless communication range, if unobstructed and direct, is about 150 meters (500ft.).

4. In the Settings window, open [Wireless Route Settings] – [Test Signal].
- 5.





Click [Start] to begin the signal check.

When completed, click [Close]. The result will appear.



## How to Read Signal Strength Results



	Communication is stable.
	Communication is unstable. If communication errors repeatedly occur, reposition the Remote Unit or add a Repeater.
	If no antenna mark appears a communication error has occurred. Try to reposition the Remote Unit or add a Repeater.

- Please refer to section [Notes and Precautions for Installing Wireless Communication Devices] under [RTR500B Series Safety Information]
- By using a Repeater, it is possible to bypass obstacles and extend the wireless communication range. For details, refer to [Using as a Repeater] in the RTR500BC User's Manual.


## Operations

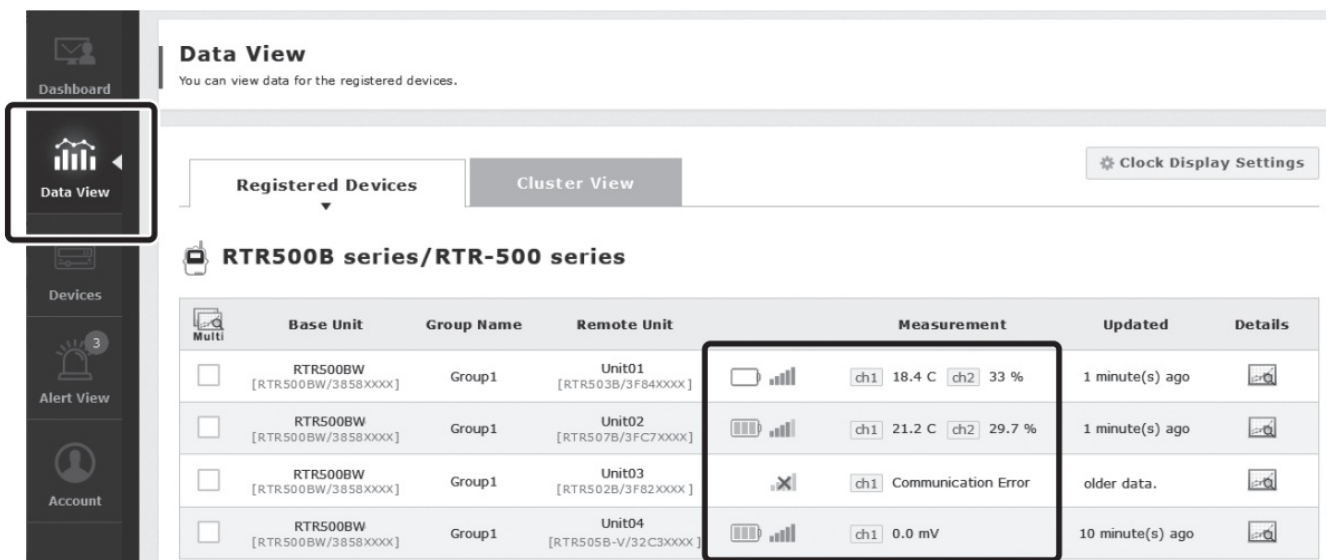
### View Current Readings via Browser

To monitor Current Readings, make sure the “Auto Transmission of Current Readings” in the Base Unit is set to “ON”.

1. Open your web browser and log in to T&D Webstore Service. [webstorage-service.com](http://webstorage-service.com)
2. From the screen's left-side menu, click [Data View].

In this screen you can check items such as Current Readings, Battery Level and Signal Strength.









Click [Details] (Graph Icon ) on the right side of the [Data View] window to view the measurement data in graph form.



**Data View**  
You can view data for the registered devices.

Registered Devices Cluster View Clock Display Settings

**RTR500B series/RTR-500 series**

Multi	Base Unit	Group Name	Remote Unit	Measurement	Updated	Details
<input type="checkbox"/>	RTR500BW [RTR500BW/3858XXXX]	Group1	Unit01 [RTR503B/3F84XXXX]	 ch1 18.4 C ch2 33 %	1 minute(s) ago	
<input type="checkbox"/>	RTR500BW [RTR500BW/3858XXXX]	Group1	Unit02 [RTR507B/3FC7XXXX]	 ch1 21.2 C ch2 29.7 %	1 minute(s) ago	
<input type="checkbox"/>	RTR500BW [RTR500BW/3858XXXX]	Group1	Unit03 [RTR502B/3F82XXXX]	 ch1 Communication Error	older data.	
<input type="checkbox"/>	RTR500BW [RTR500BW/3858XXXX]	Group1	Unit04 [RTR505B-V/32C3XXXX]	 ch1 0.0 mV	10 minute(s) ago	

The signal strength between Base Unit and Remote Unit can be checked by color and number of antennas. When using Repeaters, the signal strength displayed here is only that for between the Remote Unit and the nearest Repeater. To check the signal strength between the Base Unit and Repeater or between Repeaters, please use the RTR500BW Settings Utility.

## Downloading Recorded Data

1. From the screen's left-side menu, click [Download].
2. Click the [By Product] tab and for the target devices click the [Details] button.

**Data Download**  
Download recorded data files.

You can download archived data files after having reached 20MB of storage capacity.  
Archived Date: Dec-01-2022 16:50:03 (JST) Download

By File **By Product** Current Readings Files (XML)

**RTR500B series/RTR-500 series**

Remote Unit Info		Number of Files	
Unit02 [RTR507B/3FC7XXXX]	RTR500BW [RTR500BW/3858XXXX]	1	<span>Details</span>
Unit03 [RTR502B/3F82XXXX]	RTR500BW [RTR500BW/3858XXXX]	135	<span>Details</span>
Unit04 [RTR505B-V/32C3XXXX]	RTR500BW [RTR500BW/3858XXXX]	34	<span>Details</span>

3. Click the [Download] button for the data you wish to download.  
If you wish to download multiple recorded data, place a check next to the data, and click the [Download] button.  
Click the magnifying glass icon to open the Graph screen and see details for that data.
  - You can select the recorded data to download or delete by file or by product.
  - You may see a message about downloading archived data files. For information about storage capacity and archiving, see the T&D Webstore Service Details. [webstorage-service.com/info/](http://webstorage-service.com/info/)

### Analyzing Recorded Data using T&D Graph

T&D Graph is software that allows you to open recorded data saved on your computer. In addition to displaying and printing graphs, T&D

Graph can open data by specifying conditions, extract data, and perform various data analysis.

It is also possible to directly access and open recorded data stored in the T&D Webstore Service and save it to your PC.


1. Download T&D Graph from the T&D Website and install it to your PC. [tandd.com/software/td-graph.html](http://tandd.com/software/td-graph.html)
2. Open T&D Graph and go to the [File] Menu – [Web Storage Service].
3. Enter the user ID and password registered with T&D Webstore Service, and click [Login] button.
4. All data stored in your Webstore account will be displayed in a list. Right click on the selected recorded data and click [Download] to download for analysis.

### What can you do with T&D Graph ?












- Insert shapes and post comments and/or memos directly on the displayed graph.
- Search and open only data that matches the criteria.
- Save the data in CSV format for use in a spreadsheet program.

For details about operations, see T&D Graph Help.

## Documents / Resources

	<p><b><a href="#">T D RTR501B Data Logger</a></b> [pdf] User Manual RTR501B, RTR502B, RTR503B, RTR505B, RTR507B, RTR-501, RTR-502, RTR-503, RTR-507S, RTR-574, RTR-576, RTR-505-TC, RTR-505-Pt, RTR-505-V, RTR-505-mA, RTR-505-P, RTR500BC, RTR-500, RTR501B Data Logger, RTR501B, Data Logger, Logger</p>
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## References

-  [Data Management Solutions | T&D Corporation](#)
-  [Software/Apps | T&D Corporation](#)
-  [RTR500BW for Windows \(EU\) | Software/Apps | T&D Corporation](#)
-  [T&D Graph | Software/Apps | T&D Corporation](#)
-  [RTR500B Series HELP](#)
-  [T&D WebStorage Service | T&D Corporation](#)
-  [Service License Agreement | T&D WebStorage Service | T&D Corporation](#)
-  [Data Management Solutions | T&D Corporation](#)
-  [Software/Apps | T&D Corporation](#)
-  [RTR500BW for Windows \(EU\) | Software/Apps | T&D Corporation](#)
-  [T&D Graph | Software/Apps | T&D Corporation](#)
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