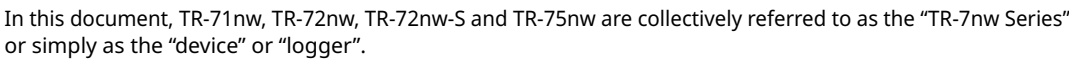


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Recording Interval Setting

- ! Skip this setting if you don't need to change the recording interval.
- ! Upon the start of recording, all previously recorded data in the logger will be deleted.
- Note: When **REC** is ON (recording in progress), the logger cannot be turned off, nor can the recording interval be changed.

Other than the measurement display, the following is displayed on the LCD monitor.

T&D WebStorage Service is a free cloud-based storage service provided by T&D Corporation, which enables you to access the uploaded recorded data from a web browser and check the current readings, remaining battery life of the device, and alert status. You can also receive warning notifications by email. In order to use the T&D WebStorage Service, user registration (free) and device registration are required.

- Before registering a user, please read [Service Details / License Agreement] for information on service contents and specifications, including the data storage period in the T&D WebStorage Service.
- The registration code of the device can be found on the supplied Registration Code Label. If you lose the code label, install the software TR7 for Windows and connect your logger via USB to the computer. The registration code and device information will be displayed at the lower-left area of the screen.
- When the storage period in T&D WebStorage Service is exceeded, old data will be deleted.

1. Access T&D WebStorage Service from the web browser.

2. Click [Create Account] to go to the registration page, and follow the directions to complete the registration.
3. Login by entering the registered User ID and Password.
4. Click [Devices] in the left menu to open the Device Settings window.
5. Clicking the [+Device] button will take you to the Add a Device page.
6. Enter the serial number and registration code for the device, then click [Add].

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

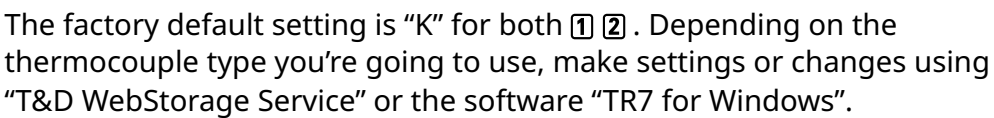
Recording Intervals & Corresponding Maximum Length (in days) of Data Stored in T&D WebStorage Service

In order to stop a recording session, press and hold the <REC/STOP> button until the **REC** mark disappears from the display.

① Sensor Error: No sensor connected, improper connection, damaged, etc.

Thermocouple Sensor Type (TR-75nw only)

In the example shown left, Channel 1 is set to Type K, Channel 2 is set to Type J.



 Auto-upload settings enable this product to automatically upload data to T&D WebStorage Service. Please read the T&D WebStorage Service License Agreement carefully before making settings.
* Making Auto-upload Settings indicates your acceptance of this Agreement.

By making settings for auto-upload, it is possible to automatically upload recorded data to the online "T&D WebStorage Service".

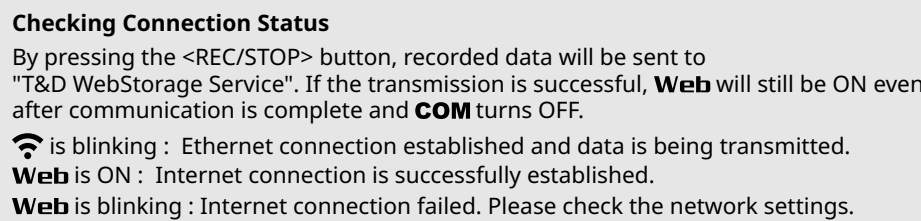
1. Connect a LAN cable to the Ethernet port.

- 
- Upload.
- 30 MIN

Below are some examples of upload intervals and the corresponding estimated battery life.

- All estimates are based on operations carried out with a new battery and are in no way a guarantee of actual battery life.
- The auto-upload interval can also be changed during a recording session.

Install the device to the actual place it will be used.



1. Access "T&D WebStorage Service" from the web browser on your PC or mobile device.

2. Click [Create Account] to go to the registration page, and follow the directions to complete the registration. If you already have your User ID, go to the next step.

- *The registration code can be found on the supplied Registration Code Label.

Data View

Devices

Alert View

Account

Clock Display Settings

Registered Devices

Cluster View

TR-7 series

Group Name	Device Name	Measurement	Updated	Details
7A	71A [TR71A/5F34019]	temp1 79.1 F temp2 73.5 F	2 hour(s) ago	
7A	72A [TR72A/5F3CC19]	Room Temp 1 73.5 F Room Humid 1 26.8 %	18 minute(s) ago	
Office	Desk [TR-71nB/4234000D]	Window1 25.4 C Non-use 23.8 C	4 minute(s) ago	

- Check the device screen to make sure **REC** is ON. Recorded data will not be uploaded when recording is not in progress.
- Try sending data to "T&D WebStorage Service" again by pressing the <REC/STOP> button on the device.
- See "Checking Connection Status" in step 2, and check if the device has a LAN connection.

We recommend making the recording interval shorter than the auto-upload interval. If the recording interval is set to longer than the upload interval, the same measurement is displayed until the next recording occurs and the new data is uploaded.

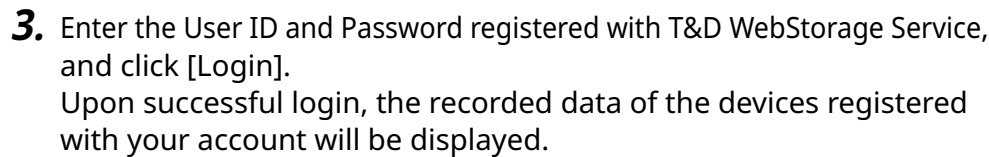
See [T&D WebStorage Service] - [important Notes] on the left side of this paper.

Recorded data sent to "T&D WebStorage Service" can be accessed, viewed and downloaded directly from "T&D Thermo" and "T&D Graph" as well as from a web browser.

* Here explains how to view data from "T&D Graph". For information about "T&D Thermo", see [Operations via Mobile APP] on the back of this manual.

- 1.** Download and install the software T&D Graph from T&D Website.

2. From the [File] Menu, select [Web Storage Service].

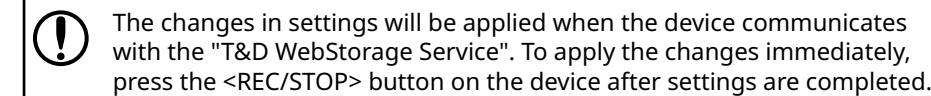


- 4.** Double click on the recorded data you wish to view in a graph. The data will be downloaded and displayed in a graph.

By using the "T&D WebStorage Service", it is possible to change the following settings.

Device Name, Group Name, Recording Interval, Recording Mode, Auto-upload Interval, Channel Name, Time Settings, Temperature Unit

Lower Limit, Upper Limit, Sensor Warning, Judgement Time

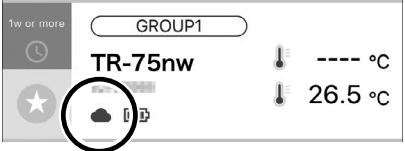


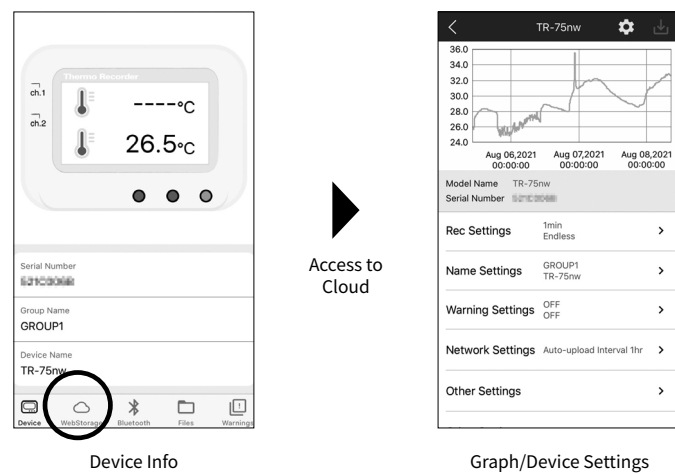
Operations via Mobile APP

STEP 1 "T&D Thermo" App Settings

1. Install "T&D Thermo" to your smartphone or tablet.
* "T&D Thermo" is available on the Apple Store for iOS devices and the Google Play Store for Android devices.
2. Search for "T&D Thermo" on the Apple Store for iOS devices and the Google Play Store for Android devices.
3. Open "T&D Thermo".
4. Tap the menu icon in the upper left corner of the screen, and tap [App Settings].
5. Tap [Account Management] for T&D WebStorage Service.
6. Enter the User ID and Password for your account, and tap [Apply].
* If you added more than one account, select the account you want to access.
7. Tap to return to the top screen.

STEP 2 Graph Display and Device Settings

1. From the list on the top screen, tap the device registered with T&D WebStorage Service to open the Device Info screen.

* The cloud icon will appear for devices registered to the cloud.
2. Tap [WebStorage] at the bottom of the screen. This will access the logger via T&D WebStorage Service and open the Graph/Device Settings screen.

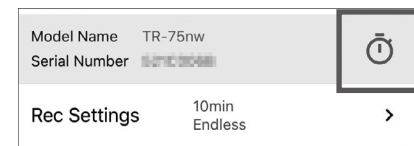


Graph Operations

Zooming in and out	Pinch in/out to change the scale.
Full screen display	Hold the smartphone horizontally.
Checking time and temperature at the specified point	Tap and hold on the graph (in full-screen mode).

Device Settings

You can view or make changes to the settings such as Rec Settings, Name Settings, Warning Settings and Auto-upload Interval. Changed settings will be applied the next time the device connects to the T&D WebStorage Service.



* The icon indicates that there are pending settings.

STEP 3 Saving and Sharing Recorded Data



1. To save the recorded data to your device, tap () in the upper right corner of the Graph/Device Settings screen.
2. Tap [Files] at the bottom of the Device Info screen to open the file list.
3. Select a file and tap the desired icon at the bottom of the screen.
* The icons on the bottom allow you to take actions on the selected data file such as sending to T&D WebStorage Service, sending via email, sharing in SNS and saving directly to your smartphone.

For details about T&D Thermo, refer to the online help.
tanadd.com/support/webhelp/tdthermo/



Operations via USB

It is possible to make device settings and download recorded data by using the software "TR7 for Windows". Data downloaded can then be viewed in a graph for analysis by using our software "T&D Graph".

Primary features of "TR7 for Windows" include :

- Start/Stop Recording
- Auto-upload Setting
- Network Settings (static IP address, etc.)
- Name Settings (device/group/channel)
- Downloading and Saving Recorded Data
- Warning Settings
- Time Settings
- Sensor Type Setting (TR-75nw only)
- Report Creation and Output
- Settings and Log Output

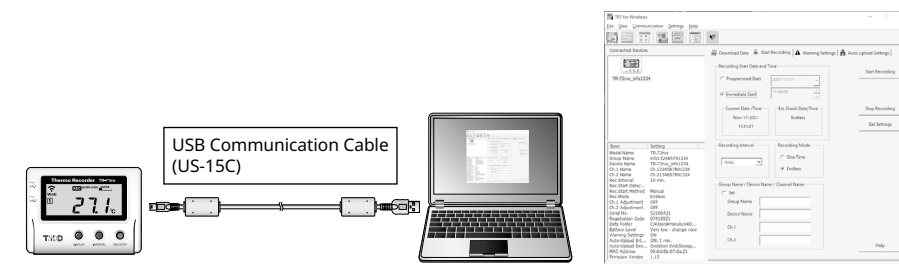
STEP 1 Setting Up

1. Download and install the software "TR7 for Windows" and "T&D Graph" from T&D Website.

tanadd.com/software/tr7forwin.html

tanadd.com/software/td-graph.html

2. Connect the logger via USB to your computer.



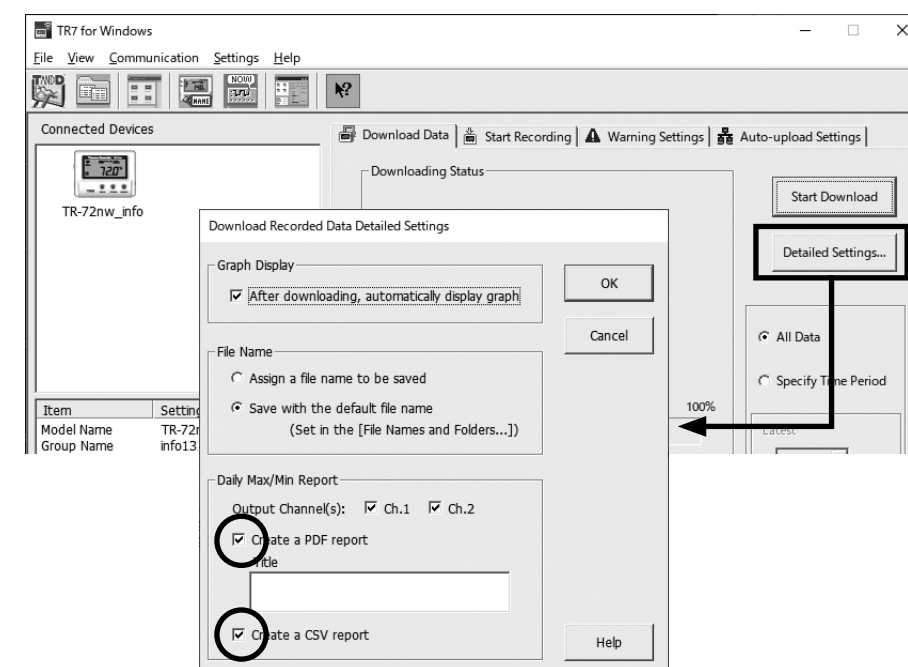
* "TR7 for Windows" will open automatically. (If not, please open it manually from the Windows Start Menu or Start Screen.)

* For details about operations please see the "Help" menu in the software.

3. After the setup is complete, place the device to the desired measurement location.

STEP 2 Downloading Recorded Data

1. Connect the logger via USB to your computer.
2. Open "TR7 for Windows", click the [Download Recorded Data] tab and proceed with the download.



[Detailed Settings] allow you to :

- * View and change the "Graph Display" and "File Name" settings
- * Select whether to create a report (PDF/CSV) with daily maximum and minimum values and total time out of threshold, etc.

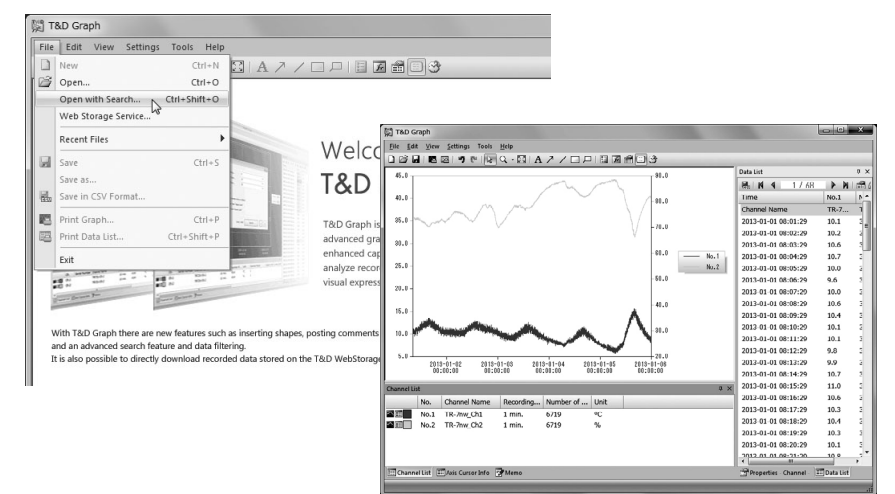
For details about the operations of TR7 for Windows, refer to
cdn.tanadd.co.jp/glb/html_help/tr7win-help-eng/



STEP 3 Viewing Recorded Data in Graph

1. Open "T&D Graph" and then access the data you wish to view.

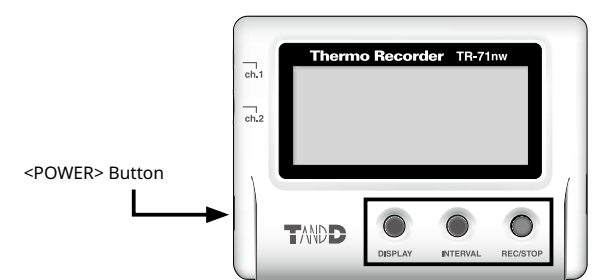
* Upon completion of the download, "T&D Graph" will open and display the graph.



For details about the operations of T&D Graph, refer to
cdn.tanadd.co.jp/glb/html_help/tdgraph-help-eng/



Device Button Operations



Power ON/OFF	Press-and-hold*1 the <PWR> button.
Start*2 / Stop Recording	Press-and-hold the <REC/STOP> button.
Check Recording Interval / Upload Interval	Press the <INTERVAL> button. With each pressing of the button, the display will switch between the recording interval (Rec.) and the upload interval (Upload).
Recording Interval Setting	Press the <INTERVAL> button. While Rec. is displayed, press-and-hold*3 the <INTERVAL> button until the interval time flashes. Press <INTERVAL> again to select the interval time.
Upload Interval Setting	Press the <INTERVAL> button twice. While Upload is displayed, press-and-hold the <INTERVAL> button until the interval time flashes. Press <INTERVAL> again to select the interval time.
Transmit Data and Settings to T&D WebStorage Service	Press the <REC/STOP> button.
Cancel Communication	Press the <PWR> button.
Switch Display Items and Pattern (Fixed or Alternating Display)	Press the <DISPLAY> button. Each pressing of the button will change the display items and pattern (fixed or alternating display) as shown below: Ch1/Ch2 current values (fixed) → Ch1 MAX/MIN values (fixed) → Ch2 MAX/MIN values (fixed) → alternating display
TR-75nw Sensor Type	Press-and-hold the <DISPLAY> button.

- *1. "Press-and-hold" means to hold the button down for about two seconds. During recording, the power cannot be turned off.
*2. Upon the start of recording, all previously recorded data in the unit will be deleted.
*3. Recording Interval setting cannot be changed while a recording session is in progress.

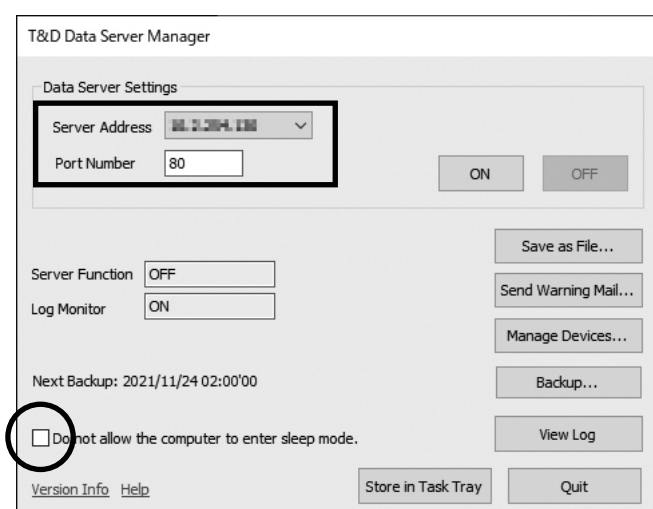
Before performing button operations, please read the attached document [Please Read First] and install the batteries and sensor(s) in the logger, and make sure the LCD is displaying measurements.

T&D Data Server

"T&D Data Server" is a Windows software that receives and stores data recorded by TR-7nw Series data loggers to the server's database. It is possible to monitor current readings and warnings via a web browser. When you wish to have recorded data automatically uploaded to your server rather than T&D WebStorage Service, please use "T&D Data Server".

tanadd.com/software/td-data-server.html

1. Install T&D Data Server on the computer to be used as a server, and open the [T&D Data Server Manager] window.



2. Enter the Server Address and Port Number.

- * The IP address(es) for the server PC will automatically appear. If there are multiple networks, select the IP address for the network waiting for a connection.
 - * The default Port Number is 80.
 - * The settings cannot be changed while the server function is running. Please click the [OFF] button to stop the server function.
3. Place a check next to "Do not allow the computer to enter sleep mode."

4. Click the [ON] button.

- * If Windows goes in "Standby" or "Sleep" mode, reception of recorded data and monitoring can not be carried out.
- * The IP address and port number set here will be used in the Windows software "TR7 for Windows" as the data destination in the Auto-upload Settings. For details about operations of "TR7 for Windows", please refer to the software's Help.

Monitoring

To open the monitoring window, open your web browser, and in the address bar enter the server address set in Data Server Settings.

Graph View

In the monitoring window, click the desired device name to view the data in graph form.

For details about the operations of T&D Data Server, refer to
cdn.tanadd.co.jp/glb/html_help/tddataserver-help-eng/

