Thermo Recorder TR-7wf Series Introductory Manual

ttp://www.tandd.com

Communicatio

(Wireless LAN)

TR-7wf Series

Smartphone

Tablet device

Graph Display

What can TR-7wf Series devices do?

Communication^{*2}

TR-7wf Series



*1: To auto upload recorded data to the T&D WebStorage Service, it is necessary to have Internet access via wireless LAN and a T&D WebStorage Service User ID. *2: A USB communication cable (sold separately) is required for connecting the TR-7wf series device to your computer

Graph Display

*3: A mobile device with wireless LAN capability is required for direct communication with the TR-7wf series device.

PC



Operations Via Cloud

Making Settings

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

- In the auto-upload, the maximum number of readings which can be stored in T&D WebStorage Service is 80,000. When this limit is exceeded, the oldest data will be overwritten and deleted
- Wireless LAN settings via operation of buttons on the logger can be made only when using a wireless LAN access point supporting WPS
- If your access point does not support WPS, use the T&D application "TR-7wf for Windows" or "ThermoWEB" to make wireless LAN settings. Make sure you have your Wireless LAN SSID, Security Mode, and Security Key (Password) information.
- The time difference setting can be changed via TR-7wf for Windows or ThermoWEB. The default time difference is as follows:
- Serial number "No.4XXXXXXX" : GMT +1:00 Serial number "No.3XXXXXXX" : GMT -8:00

1. Press-and-hold the

<POWER> and <DISPLAY> buttons together until WPS appears on the LCD screen.



2. Set your wireless LAN access point to "WPS" mode.

For details on the wireless LAN access point, contact the manufacturer of your access point.

3. If the setup is successfully completed, the **?** mark on the LCD display will turn ON.

If 🛜 keeps blinking:

It means the device is unable to connect to the wireless network. After adjusting the distance between the device and the access point, start from step 1 again.

4. Click the <INTERVAL> button to display the current upload interval.



5. Press-and-hold the <INTERVAL> button until the display flashes.

6. With each pressing of the <INTERVAL> button the upload interval time will change. When the desired interval appears, stop pressing the button.

If you wish NOT to use the auto-upload feature, select "OFF".

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

In general, the shorter the upload interval, the shorter the battery life.

Jpload Interval	1 min.	10 min.	1 hr.	12 hrs.	
Battery Life	About 10 days	About 2 months	About 1 year	About 1.5 years	

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.

Installing the Device

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

To perform auto-upload, make sure to install the device at a place that has wireless LAN Internet access.



Check Wireless LAN Connection Status

Checking Connection Status

By pressing the <REC/STOP> button, recorded data will be sent to T&D WebStorage Service. If the transmission is successful, Web will still be ON even after communication is complete and **COM** turns OFE.

r is blinking : Wireless LAN connection failed. Try adjusting the position of the device or its distance from the access point.

Web is blinking : Internet connection failed. Confirm whether your access point can connect to the Internet

Checking Recorded Data

Check recorded data uploaded to the T&D WebStorage Service.

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

T&D WebStorage Service : http://www.webstorage-service.com/

- **2.** Follow the directions as they appear to get a User ID. If you already have your User ID, go to 3 below.
- **3.** Login by entering the registered User ID and Password.
- 4. Clicking the [Account] button will take you to the Account Management page.
- **5.** Select [Device Registration], and enter the serial number and registration code for the target TR-7wf Series and then click the [Register this device] button.

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

6. At first, only the added TR-7wf Series device will appear in the [Current Readings] tab page.

Measurements will appear after clicking the <REC/STOP> button on the device or when data is auto-uploaded from the device.



If measurements are not displayed:

Check the device screen to make sure **REC** is ON. Recorded data will not be uploaded when recording is not in progress.

See "Checking Connection Status" in (2), and check if the device has a wireless LAN connection. If the display of measurements is not refreshed:

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.

View Data from other than a Web Browser

Recorded data which was sent to the T&D WebStorage Service can also be viewed with ThermoWEB and/or T&D Graph.

Saving Auto-Uploaded Data

Recorded data which has been uploaded to the T&D WebStorage Service can be saved in the PC by using T&D Graph and accessing T&D WebStorage Service.

For details, please see Tips printed on the back of this paper.

Changing the Settings

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

Auto-upload Interval





The changes in settings will be applied when the device communicates with the T&D WebStorage Service. To apply the changes immediately, press the <REC/STOP> button on the device after settings are completed.

Operations Via USB

It is possible to make device settings and download recorded data via our software "TR-7wf for Windows". Data downloaded can then be viewed in a graph for analysis by using our software "T&D Graph".

Please prepare a USB communication cable (sold separately) to connect the device to your computer.

Primary features of "TR-7wf for Windows" include :

- Start / Stop Recording Settings
- Name Settings

 Downloading and Saving
- Auto-upload IntervalWireless LAN Settings
- Recorded Data
 Warning Settings

• Device Name and Channel

- Setting Up
- **1.** Download and install the software "TR-7wf for Windows" from http://www.tandd.com/support/download/software/
- **2.** Open "TR-7wf for Windows" and connect your device via USB to the computer.



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.

2 Downloading Recorded Data

- **1.** Open "TR-7wf for Windows" and connect your device via USB to the computer.
- **2.** Click on the [Download Recorded Data] tab to start the download.

Viewing Recorded Data in Graph

- **1.** Download and install the software "T&D Graph" from http://www.tandd.com/support/download/software/
- **2.** Open "T&D Graph" and then access the data you wish to view.



Operations Via Wireless

It is possible to make device settings, download recorded data, and view recorded data directly from your mobile device. To carry out direct communication with a TR-7wf series device, it is necessary to download and use our application "ThermoWEB".

Operation of buttons on the logger is required during communication.

- Primary features of "ThermoWEB" include :
- Start / Stop Recording
- Settings
- Auto-upload Interval
- Wireless LAN Settings
- Recorded Data Graph Display
 Upl
- Uploading Downloaded DataWarning Settings

Downloading and Saving

Device Name and Channel

Name Settings

Recorded Data

Setting Up

- **1**. Install ThermoWEB in your mobile device.
 - From Android devices: Search for "ThermoWEB" in the Google Play Store From iOS devices: Search for "ThermoWEB"
- **2.** Open the application, and click the **.** icon and go into [Device Settings].

in the App Store

3. Follow the directions to communicate with the TR-7wf series device and make settings.



무 # ?

4. Place the device to the desired measurement location.

Downloading Recorded Data

- **1.** Open the application, and click the 🔜 icon and go into [Down-load Recorded Data].
- **2.** Follow the directions to communicate with the TR-7wf series device and download data.

Viewing Recorded Data in Graph

- **1.** Open the application, and place a check mark next to the data you wish to view.
- **2.** Select [Graph] from the menu being displayed at the bottom of the screen.



Uploading Recorded Data

It is possible to send downloaded data to the T&D WebStorage Service or to a designated e-mail address.

- **1.** Open the application, and place a check mark next to the data you wish to send.
- **2.** Select solve or the menu being displayed at the bottom of the screen.
- **3.** Select the destination for the data.



T&D WebStorage Service : http://www.webstorage-service.com/

TIDS ThermoWEB

ThermoWEB enables the use of mobile devices for making device settings to and viewing data recorded from TR-7wf Series data loggers.

When used in conjunction with T&D WebStorage Service, convenient functions can be carried out via the Internet such as changing settings in the TR-7wf Series and viewing data uploaded to the T&D WebStorage Service.



The "ThermoWEB" app is available for download and install from the Google Play Store or App Store.

Tips T&D Graph

T&D Graph is a software program which enables the viewing of recorded data in graph form, no matter whether the data is stored on a local computer or at T&D WebStorage Service. Even if the data you wish to view is divided into multiple files, it is possible to merge them into one graph by specifying the device name and/or time period. It is also possible to save the graph and data info as displayed in T&D Graph.

	orga					test it and the	
The line line	the line line		-				
	WAR PERMIT	C.C. A. Later and	AL 101-01-04		and and a second se		
			1		H. H. C. 1725	P. N. 101	
			1. 4.1	3.0	Tirtur Channel Manter	Mail I A	
1. 1.1	tros Mar	10 I II	6 R.L.	101	2012/06/02 10:24:24	22.0	
	1 Aug MAL		0.011	3.0	3013-05-03 10:20:47	1	
40- 1 10 1 Y	2012010131	101 11	MAN.	- 105	2013-06-02 10:00:04		
19166	No.2 28.0 °C	4MD_111	100 11		2012-05-02 05:04:04	81.2	
10.10	710.4 49 %	1.J. (M)	MA IL.	0.0	3 3013-35-12 10.56.47	11	
10-11-11	NI LUIL AND	AND AREA STREAM	1111 14	- res.	2013-36-13 Mo4C134		
and the second	166.13.13.141	A STANDBORGER	NUD-N-	0.0	20(1-05-12 10:40:50	1.000	
11919070	NONDRUM 1	10. Abdilla	14144		2013-06-12 10:50:34	11	
						10.0	
4. 11	Mar Martin	1 2 1	1.1 1.1 1.4	8-10 C	2013-05-17 10:54:54	28.4	
4. 14	1.0.4	1 1	-	14	2013-05-07 10:54:54 10:13-06-07 10:54:47	144	
4. 1/4	Ciper etc. Seech	1 1 1			2013-05-17 10:54:54	ise is a	
41 PVU 2013-06-16 60:00:00	(1) The set of the set	Terret			3013-36-07 10:56-34 3013-36-07 10:56-07		in and
4 · //0 2013-06-36 69:00:00	(1) (1) (2) Open ach Seech MO Retificier Seech See E Seech	Terrent Int			2013-05-07 10-56-07	,	dia and
4 · 1/4	Construction Service Mill Operation Service State 2. Automatic Featured	Toryand Tory Fachel (all		•)	303-86-0 16-96-9 103-96-0 16-96-0	•	de an
9 7 7/10 2953-26-36 60-50:30 with Oh	Contracts Search	formed The Found (all This found (all		•)	2013-06-07 16:56-07 1013-06-07 16:56-07		die and
4 1 7/10 2013-26-38 60-50:30 eer last No. Obs	Course and Search Monard Search San B. San Search Frances Search San Search	Faryustel Tour Fachal (all 2013) Lutra - Callin 2014 rays Charroth	- 10 - 1	•) 612/10/16 + (25 10	2013-00-07 10:00-04 3013-30-07 10:00-07		See th
4 7 7/4 2003-20-36 03:52:50 mer lat No.1 Bab No.3 Da	(2) Court with Search McD Rothings Search Sar 2) Mailting Fearer Courts For exchange Sar Search Courts	Faryund Too Pontel (all 2012/14/19 -) cuites (all Herge Cherrenk (all Serie Development)	4 - 1 6 - 1	•) (12/10/01 +) (20.00	2013-06-07 10:56-04 10:13 16:17 16:56-07	•	di in
4 1/1/1 2853-06-16 85:55:00 Mail Bak Mail Bak Mail Bak Mail Bak Mail Bak	Contractions	Faryund Too Postal (all 2013/14/10 -) 0.000 (2) Mayo Charaoli (2) San Devisional (1) (2) Manarelian (2)	e (j) - j te (•) 12/19/12 + (25.10 -Cata#13C Grap#Wea	2013-00-02 10:56:54 56:53 56:07 10:56:47 51:55 56:07 10:56:47	•	line de
4 1/11	Construction of the second sec	Feyned Ten Portel (all 2013/14/10 -) Calle (if the Charroll (if the Charroll Different Constant) Different Derive	e ili i i	•) counting = 10 m CountTSC GraphWeb Tores	2012-00-02 MCSHCAR	• (line th
4 1/11 2013-00-16 50-50-00 100-1 000 100-1 000 100-1000 100-100 100-100 100-1000 100-100	Constant and American Americ American American A	Reywood Tone Perchal (all 2013/61/01 - 0.000 (all Harpe Charmelt (all Sec Excendedadd) Contact Antipercontential Device Social Control (all Section (all Section) (all Sec	ti ili i i	e) ConstTic CrastMine ConstTic CrastMine Norm Norm	2012-00-02 MC-50-04 MK-5 So K7 M-50-07 MK-50 K7 M-50-07 MK-50 K8 K8 K. Then of the article anticome an under	• 6	See th

Download from : http://www.tandd.com/support/download/software/

Tips Device Button Operations

For all operations, to "press-and-hold" means to hold the button down for about two seconds.

Power ON/OFF	Press-and-hold the <power> button.</power>				
Start/Stop Recording	Press-and-hold the <rec stop=""> button.</rec>				
Recording Interval (Rec.) / Upload Interval (Upload.)	Pressing the <interval> button will cycle the interval selection between the recording interval (Rec.) and the upload interval (Upload). To change the interval time, press-and-hold the <interval> button for two seconds or more while the selected interval (Rec. or Upload.) is displayed. Note, however, that it is not possible to make any changes to the recording interval settings during recording (while REC appears).</interval></interval>				
Communication with T&D WebStorage Service	Press the <rec stop=""> button to send data to or apply settings in T&D WebStorage Service.</rec>				
Channel on Display	Press the <display> button to switch the display.</display>				
Wireless LAN Settings using WPS	Press-and-hold the <power> button and the <display> button together.</display></power>				
Communication with Mobile Devices	Press-and-hold the <interval> button and the <display> button together.</display></interval>				

Troubleshooting and Detailed Info

Support information is available on the T&D Website. Please access the following URL:

http://www.tandd.com/support/