TSB/TWE/TWP™

Touchscreen data logger for DicksonOne

This Quick-start Guide presents an overview of the Touchscreen data logger, with setup and connection instructions to get your device up and running on Ethernet or Wi-Fi. You can then register the device in DicksonOne to view data online, configure alarms, and much more.

What's in the box

Touchscreen Data Logger (TSB / TWE / TWP)

Replaceable Sensor(s) (Your sensor may differ and be in another package)

AC Adapter

Mounting Plate - used for mounting the Touchscreen Data Logger to the wall

Kickstand to stand the device on a flat surface when not mounted to a wall

Ethernet Cable (for DicksonOne Units)

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Environmental Monitoring + Compliance Experts

Getting Started

1. Plug sensors into the device.
2. Plug the device into power.
3. Press the power button on the side of the device to turn it on.
4. Enable the channels you want to display on the screen (details in "Graph Settings" section).
5. **IMPORTANT**: You may wish to review the firmware versions online at https://www.dicksonone.com/change_logs and be sure to opt-in to Firmware Notifications in your DicksonOne profile.
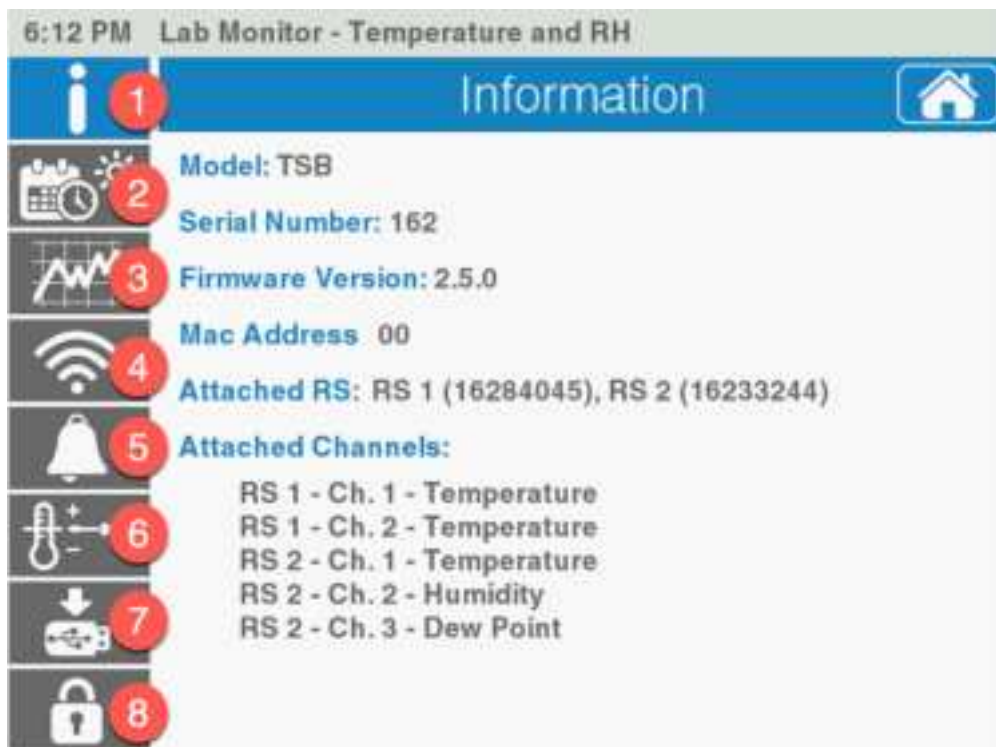
NOTES ABOUT SENSORS:

The long, straight piece of the sensor is an extension arm for the ambient temperature and temperature/humidity sensors. It does not need to be used with any other sensor and is plugged directly into the device with the sensor attached to it as pictured above. When unplugging your Replaceable Sensor from your device, wait 10 SECONDS before plugging the sensor back into your device.

Device Settings

NOTE: TSB devices are configured via the touchscreen interface ONLY. TWE/TWP devices are connected to the internet via the touchscreen interface but are further configured on DicksonOne.

Touch the 'Settings' icon on the bottom right of the device screen to access the device settings screens for device configuration and device information.

1. **'Information'** provides details about the logger, including Model, Serial Number, Firmware Version, Mac Address, Attached Sensors and Channels.

2. '**General Settings**' allows you to configure the device's name, time settings (format, time zone, date), sample interval for logging, units of measurement, screen saving, and brightness adjustment.

3. **'Graph'** area allows you to choose between a graph display or text view of readings, statistics, scaling, determine what channels to display on the main screen (two max), and set min/max on/off.

4. **'Network Settings'** is used if your device will be registered to your DicksonOne account. After connecting your device to the internet (WiFi or Ethernet), the device will display a **6-digit registration code** that is used to register the device to your account. This screen will not be used for standalone TSB loggers.

5. **'Alarms'** allows you to enable the alarm (up to two per channel or one high and one low per channel).

6. **'Calibration'** provides details of when the sensors were calibrated and allows you to create calibration alarms as well.

7. '**Stored Data**' allows you to download the data from the device using USB and/or also delete the tablet data.

8. '**Admin Settings**' allows you to set a passcode to secure the device.

Using your Touchscreen Locally (Without Cloud Software)

All touchscreen devices including TWEs and TWPs, can be used as a standalone device without a DicksonOne subscription.

NOTE: TSBs do not have the option to be used with DicksonOne and therefore can only be used locally.

To set the TWE or TWP as a standalone device:

1. Tap the 'Settings' icon.
2. Tap on the WiFi icon in the Settings Menu to open the '**Network Settings**' screen.
3. Set 'DicksonOne Enabled' to OFF.

Using your Touchscreen With Cloud Software

Connecting a Logger to the Internet (TWE/TWP Only)

Connect via Ethernet

1. While connected to power, plug an ethernet cable into the device and an active ethernet jack.
2. Navigate to the **'Network Settings'** screen.
3. Switch the 'Network Adapter' setting to **Ethernet**.

Connect via WiFi

1. Navigate to the '**Network Settings'** screen.
2. Switch the 'Network Adapter' setting to **WiFi.**
3. Tap **Scan** to scan for your network. Select the appropriate network from the list. If you don't find your network, manually enter your SSID.
4. Enter your network password, security settings, and encryption as needed. Tap **Connect**.

Get Started on DicksonOne

Create a DicksonOne account online by following the steps below or sign in.

Steps:

1. Visit DicksonOne.com/signup
2. Complete the registration form and hit 'Sign Up.'
3. Review and acknowledge the Terms of Use.

Verify your DicksonOne Subscription

NOTE: It is important to do this step before adding any loggers! The system will work without a subscription, but will prevent you from using alarms and storing data beyond 30 days.

A DicksonOne subscription is required to enable all features. Accounts may have an active subscription already, and the account administrator can verify by going to DicksonOne.com > Manage > Billing. If you do not have a subscription activated, contact your sales rep or via support (contact details provided below).

You will now be ready to register devices online by clicking '+Register New Hardware.'

Adding a Logger to Your DicksonOne Account

Once your logger has been connected to the internet, you can register your logger to your DicksonOne account using the 6-digit registration code found on the Network Settings screen of your device.

Steps:

1. On your DicksonOne account click the '+ Add Hardware'.
2. Click '+ Add a DicksonOne Logger'.
3. Fill out the device registration form
   a. Provide a name for the device
   b. Type in the 6-digit registration code (provided on the logger once it is connected to the internet)
   c. Select a location, determine the settings
   d. and click 'Register Device'
4. Data will flow into the system shortly and you will see initial data in 5-10 minutes

DicksonOne Account

Log into or create your DicksonOne account at https://www.dicksonone.com/ to get started with:

- Device management
- Adding users
- Creating alarms
- Configuring reports
- And more!

Adding Locations, Users, Alarms and more

To learn more about how to add locations, users, and configure alarms on your DicksonOne account please visit the knowledge center by going to https://dicksondata.com/resources/support/dicksonone/.

Configure your Device Settings

Touch the gear icon in the lower right corner of the screen to configure your device.

NOTE: If your device is connected to DicksonOne, some settings will appear disabled in the device and can only be configured online from your DicksonOne account. To learn more about configuring your device, visit the knowledge center by going to https://dicksondata.com/touchscreen-support-articles/

General Settings

Device Name: Name your device something meaningful to your application

Time Format: 12hr or 24hr

Temp Units: Fahrenheit or celsius

When Full: Overwrite or Stop logging

Sample Rate: Select an appropriate sample rate

Date/Time: Set the Date and Time of the Device

Screensaver: Automatically dim the screen after a set amount of time

Brightness: Adjust the brightness of your screen

Graph Settings

Display View: Toggle between a Graph and Text view on the home screen.

Display Statistics: Display minimum, maximum, and average on the home screen for any channels displayed on the graph.

Vertical Scale Auto: Automatically scale the Y-axis based on the data or manually set the min/max values for the variables.

Temp Min/Max & RH Min/Max: If you have Vertical Scale Auto set to "off" then you'll need to manually configure the Y-axis values for each variable.

Channels:

> *Display*: Display this channel on the home screen (maximum of 2 can be displayed, but any connected channels are recorded).

> *Min/Max*: If this is turned on, you'll see the high and low lines (lighter shade of the main line) for the graph lines (an average depending on the amount of time displayed on the screen).

Alarm Settings

To configure the alarm follow these steps:

1. Enable the alarm (up to two per channel or one high and one low per channel).
2. Select an above or below *condition* to trigger the alarm.
3. Set the *value* the reading must be above or below in order to trigger the alarm.
4. Enable the *audible alarm* if desired (if disabled, a message will still appear on the screen).

Readings To Trigger (alarm delay): the number of readings that an alarm condition must exist until an alarm is triggered. For example, if your Sample Rate is set to five minutes and your 'Readings to Trigger" is set to 2 readings, it means the device must be in an alarm condition for 10 minutes before it will alarm.

Downloading Data

To download the data from your device plug in a USB flash drive and follow these steps:

1. Hit the Save to USB button
2. Select the desired export
    a. *CSV (All Channels on This Device)* - This option will export all stored channels on the device including those from old replaceable sensors (if the device wasn't cleared) in a CSV format.
    b. *CSV (Connected Channels)* - This option will export only the stored channels for the replaceable sensors currently connected to the device in a CSV format.
    c. *DicksonWare* - This option exports a file with all stored channels on the device including those from old replaceable sensors (if the device wasn't cleared), is compatible with the DicksonWare software and maintains 21CFR11 compliance.

Screen Lock Settings

Enabled: Toggle the Settings Lock on/off.

Timeout: How long until the screen lock is enabled.

Set Passcode: Set the 4-digit passcode and confirm it before it is saved.

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