

The display will show when the unit is battery operated, but the battery will drain very quickly. The unit should be connected via AC power and the battery should only be used for backup purposes.

Relays

FH535 features 2 (1 per channel) SPST 24VDC. 0.5A, NO/NC Relays. Relays do not operate under battery power. A Relay wiring diagram is available at <http://www.dicksondata.com>. Pin number 1 is the lowest pin position and Pin number 6 is the top pin position.

Clear Logger

The Touchscreen Logger can be cleared via DicksonWare or by saving a current or new Time Scale or changing the Date or Time via the Touchscreen Menu.

Power

The Touch Screen logger operates on a 120V AC adapter. A rechargeable battery provides backup for up to 4-5 hours. A UPS is recommended for longer backup life. While battery operated, the unit will continue to log data but will not sound an audible alarm when an alarm condition is present. The Touchscreen must run for 24 hours before the backup battery is fully charged.

If the power switch is turned off or the backup battery is not charged and the logger loses power, up to 30 minutes of the most recently saved data can be lost. Turning off the logger while logging will result in invalid data points during the period of time when the logger was not powered.

Warranty

Dickson warrants this line of instruments will be free from defects in material and workmanship under normal use and service for a period of twelve months, after delivery. This warranty does not cover routine calibration or battery replacement. For Specifications and Technical Support, go to <http://www.dicksondata.com> or contact us via telephone at 800.323.2448.

DICKSON Touchscreen Logger FT500/FT520/FT525/FT535/FT540/FT545/FH520/ FH525/FH535/FT560

Getting Started

Your Color Touchscreen Logger includes the following:

- AC Adapter
- Probe (depending on model)
- Certificate of Calibration
- Quick Start Manual

**SD Flash Memory Card, USB Cable and DicksonWare Software are sold separately.*

The logger must be CLEARED via DicksonWare prior to usage if you intend to export logger data to DicksonWare. Clear the logger as follows:

- Power the logger via AC adapter
- Connect the logger to the computer via USB cable
- Access the DicksonWare software
- Click the CLEAR button and follow the onscreen prompts
- Remove the USB cable once the logger has been cleared
- Set the date/time, sample rate, scales and alarms to begin logging data

Presets

- Model: FT500 /FT520/FT525/FT530/FT540/FT545/FT560
Time Scale: 1 Hour / Sample every 6 sec
Temperature Range: 0 to 100
Unit of Measure: Deg. F
Alarm: OFF
- Model: FH520/525/535
Time Scale: 1 Hour / Sample every 6 sec.
Temperature Range: 0 to 100
Humidity Range: 0 to 100
Unit of Measure: Deg. F; %RH
Alarm: OFF

IMPORTANT: "Automatically adjust clock for Daylight Saving Time" must be disabled. See the DicksonWare section for instructions on disabling this feature.

Quick Start

The Touchscreen Logger is a computer device and must be set and restarted prior to use.

- 1) Plug the AC adapter into a standard electrical outlet, connect the logger to the AC adapter and slide the power switch up to the "On" position.
- 2) Set Time: Press Menu → Setup → Set Time → Save → OK
- 3) Set Date: Press Menu → Setup → Set Date → Save → OK
- 4) Set Time Scale: Press Menu → Set Scales → Set Time Scales → Save → OK
- 5) Power off the logger, wait 10 seconds and power on the logger
- 6) Press Current to view current readings. The logger is ready for use when readings are displayed. If no readings are displayed, repeat the above steps.

Exporting Data: Saved data can be exported to and viewed in DicksonWare

- The logger must be CLEARED via DicksonWare 17.4 or greater prior to logging and downloading data.
- Export data using the USB cable or Flash Memory Card. Open DicksonWare to view exported data.
- When running DicksonWare on a computer with Daylight Savings settings, adjust the computer as follows:
 - From Time & Date Settings:
 - Select Time Zone
 - Deselect "Automatically adjust clock for Daylight Saving Time"
 - Click OK
 - Select Internet Time
 - Deselect "Synchronize with an Internet time server"
 - Click OK
- Note: You must manually adjust your computer time during the start and end of Daylight Savings.

Additional Touchscreen User Settings include:

- Set Channel 1/2 Unit of Measure/Range(s) → Menu → Setup → Set Ranges
- Set High/Low Alarms → Menu → Setup → Set Alarms

Alarm Operation

- Alarm ON: Alarm setting arrows will appear on the graph to indicate min and max settings. These arrows can be dragged and dropped to adjust alarm min and max settings.
- Alarm Triggered: Out of range alarm setting arrow will blink, the alarm symbol will display and an audible alarm will sound.
- Press the logger's display to clear the alarm.
- If the alarm condition still exists after two minutes, the alarm will sound and display again.
- If the display is not pressed after 30 seconds, the alarm will stop sounding and beep 2x every 5 minutes until the alarm is cleared.

Note: The alarm is inaudible while the unit is battery operated.

VIEW

- There are 3 selectable views; Press the "View" button to scroll through each view.
- Current Readings will update every 10 seconds or per the sample rate, whichever is greater
- Note: The Current Reading Window can be dragged and dropped to set a new display location.

Minimum and Maximum Readings

- Min/Max readings displayed reflects the Min and Max for all samples currently displayed on the graph.
- When scrolling through logged data or zooming, the Min/Max readings will change to reflect the data being displayed.

Scroll Bar

- A full graph will trigger the "Scroll" bar icon to display.
- Press and drag the bar to the left to view all saved data.
- When the scroll bar is in the right most position, the most recently saved data is displayed on the graph. When in the left most position, the oldest saved data is displayed on the graph.

Zoom

- Press the ZOOM button to activate Zoom
- Place your finger on the graph and drag along the graph to draw a box over the desired data.
- To exit Zoom, press the Unzoom button. The graph will default to the standard Time Scale with the most recent data displayed.

Screen Lock

- Prevents unauthorized users from clearing the logger or changing settings.
- Press Menu, Setup, Set Screen Lock, enter code: 9 3 0
- Press OK
- Turn the Screen Lock Off/On, set screen lock delay and set new code.
- The screen lock will activate once the preset delay period has passed after the last screen touch.
- Contact Dickson if the Screen Lock code is forgotten.

Stop or Wrap When Full

Your Touchscreen logger is set to log continuously, "wrap when full". To change, in DicksonWare, go to Setup → Samples to set the logger to "stop when full".

Display

The Touchscreen Logger display may show colored lines during the start-up process. This is part of the display testing process; however, the display should display normally within a few seconds.