Getting Started

Default Logger Settings

Sample Rate = 1 minute
Stop or Wrap When Full = Wrap
DicksonWare Unit of Measure = °F

Quick Sart

Install DicksonWare™

Version 15.5 or higher on your PC (Compatible with Windows 98 or higher)

Install battery

1. Each end of the High Temperature Data Logger can be removed. The battery is located on the cap end with the lanyard hole.

2. Remove the cap carefully by twisting the cap counterclockwise.

3. Insert the battery positive side in first.

4. Replace the battery cap tightly.

5. It may take up to 5 seconds for the unit to power up.

6. Open DicksonWare software via the icon on your desktop.

Setup Logger

1. The USB port is located on the sensor end of the logger.

2. Remove the cap. The Thermistor probe feeds into the cap. It is OK to remove the probe all of the way from the cap. It is easily re-inserted.

3. The USB port is just inside the logger opening.

4. Connect the USB cable to logger and to an available working USB port on your PC.

5. Your computer may detect the logger when it is powered on and connected to the computer via the USB connection. Depending on your version of Windows, the computer may go through an *Add New Hardware routine*. Click on the **Setup** button. You will be prompted to select *USB* or *Serial COM Port Connection*. Select **USB** then click **Continue**. A Setup window will appear. All fields should be automatically filled in, confirming that DicksonWare has recognized your logger. Should all fields remain blank, refer to "no communications for this model" in the *Technical Support* section of www.DicksonData.com.

6. Once DicksonWare recognizes the logger, press the **Clear** button. This will delete all data currently stored.

7. Your logger is now ready to be placed in the desired logger location

Software

(All of these features can be modified by clicking on the main **Setup** button.)

Setup (button)

Click this button first to establish communication between your logger and DicksonWare™ software. You may be prompted to select the communication method between **USB** or **Serial COM port**. You may save this setting so you will not be prompted again. This setting is also changeable in File/Preferences/Communications. A setup window will appear with "All fields" populated. This confirms that the software has recognized the logger. Should "All fields" remain blank and communication is not established, refer to the *Troubleshooting* section of this manual.

Identification (tab)

This tab provides you with the model and serial number of the logger, as well as the option to set a custom "User Id" by clicking the active "Setup to the right of the User Id" field. This tab also includes the date the unit was calibrated, calibration interval, and factory calibration date.

Samples (tab)

The majority of the setup process takes place in this section. Each field with an active "Setup" button to the right, is a parameter that you can customize.

Sample Interval Tells your logger how frequently you want it to take and store readings. This can be done in 1 or 10 second intervals. The dialog box that allows you to change the sample interval will also inform you ow much time your chosen sample rate will cover. "Sub ten second interval" should be enabled for desired sample intervals under 10 seconds.

Stop or Wrap when Full Determines what the logger should do when it has collected all possible samples. The logger will either stop and discontinue logging, or continue logging by *wrapping* the newest data over the oldest.

Note: When changing logger settings (sample interval, stop/wrap, and start date and time) the logger will automatically clear all stored data.

Channels (tab)

By clicking the **Adjust** button to the right of the temperature value for channel 1, you will be allowed to change the name of the channel.

Alarms (tab)

Alarms are not active for the High Temperature Logger.

Download (button)

From the main menu, click on the **Download** button to automatically extract all logged data into a graph and table format.

Customized Graphed Data

DicksonWare calculates MIN, MAX and AVE of all data collected. Customize data by eliminating unnecessary data points and customize MIN, MAX and AVE to show only desired information.

Export Data

A snapshot of your graph or a real-time graph of points can be easily exported to other programs such as Excel or PowerPoint.

Calibration

A *Zero Adjust* calibration can be performed on this logger. **SW400** calibration software is required. **Note:** It is strongly recommended that a higher accuracy NIST'd instrument be used as the standard.

For more accurate calibration, return the instrument to Dickson for calibration in our A2LA Certified lab. Contact *Customer Service* for a *Return Authorization Number* before returning for calibration.

Replacing the Battery

Battery Type Tadiran TLH-5955 high-energy lithium battery, Quantity 1, Dickson part R170"

If the battery is low

Removing the battery will cause the logger to take a dummy reading of -414 to mark the point where logger power was restored. It is recommended that the logger be cleared in DicksonWare before using.

If battery loses power before being replaced

The logger will resume logging once the battery is replaced, but all readings before power loss will be off. A reading of -414 will mark the point where logger power was restored. Replace the battery and clear the logger in DicksonWare™ before using.

Note: The loggers can not be turned "on" or "off". If decommissioning a logger, remove the battery.

Need to know

Logger Settings

When changing logger settings (sample interval, stop/wrap and start date and time) the logger will automatically clear all stored data.

Fahrenheit/Celsius

The DicksonWare default is Fahrenheit. To change graph view in DicksonWare to Celsius, go to File/Preferences to change temperature unit of measure selection.

IP Rating

This logger has an IP rating of 68 and has maintained the IP68 rating in up to 50 meters of water.

Troubleshooting

Can the HT200/220/225 be used in an autoclave or incubator?

• Yes, this logger is perfect for both applications.

Why won't the logger communicate?

• Is the correct version of software being used?

• Version 15.5 or higher is required. Please contact customer service if correct version of software is being used and unit still does not communicate.

• Make sure the battery is good.

• Make sure the USB cable is not physically defective. Try another cable.

• Make sure that "USB" is selected under File/Preferences/Communications.

• Try another available USB port. If this is the first time attempting to communicate on this PC, or if new software or programs have been installed since the data logger was last used, try installing the software on another PC.

Why does my downloaded data show a -414 reading?

• You will see a -414 reading if the battery was removed at any time, this marks the point at which logging was resumed once the battery was replaced.

  Note If the logger is dropped on a hard surface, it may temporarily lose the battery connection resulting in a -414 reading. This will not affect other logged data.

Will I lose any logged data when replacing the battery?

• No

The o-ring came loose.

• If the o-ring on the USB/Probe end comes out, simply reinsert the o-ring as far into the case as possible and screw in the probe cap. The cap will push the o-ring back into position.

Warranty

Dickson warrants that 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 and battery replacement.

Factory Service & Returns

Contact *Customer Service* **630.543.3747** for a *Return Authorization Number* (RA) before returning any instrument. Please have the model number, serial number and a PO ready before calling.