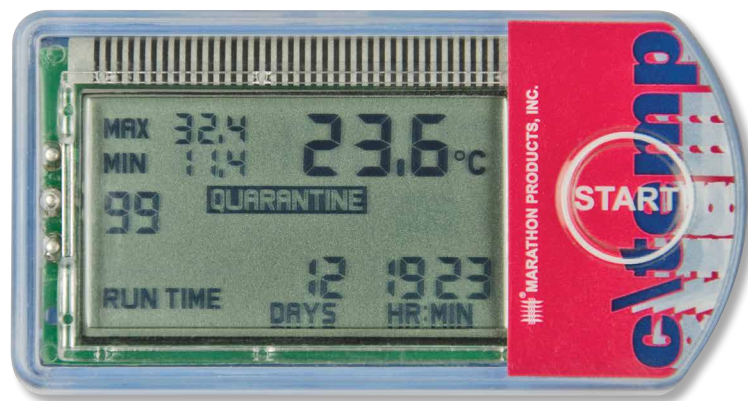


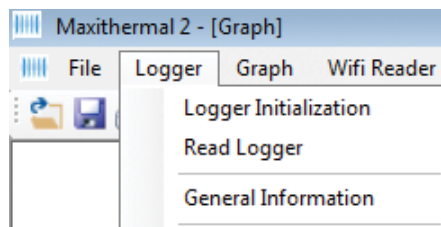


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Initializing the Logger:

Begin by starting the MaxiThermal2 software, connect the USB cable, or plug the device into the computer USB port.

On the menu bar select **Logger -> Logger Initialization** in the drop-down menu. The Logger Initialization window will open.



- 1) If more than one logger is connected, use the drop down menu to choose which logger to program.
If the logger was connected after opening the **Logger Initialization** window, use the **Scan** button to find it.
- 2) For **Description**, enter a descriptive name for the recording.
- 3) For **Logger Clock**, select the Time Zone for the logger clock.
- 4) For Unit, select temperature scale, °F = Fahrenheit or °C = Celsius.
- 5) Select a **Start Delay** time if you want a delay after pressing the start button, before starting to record.

The screenshot shows the 'Logger Initialization' window with the following fields and buttons highlighted by numbered callouts:

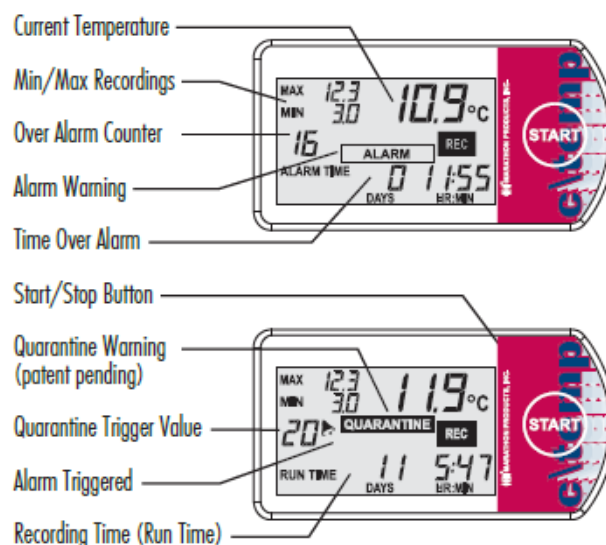
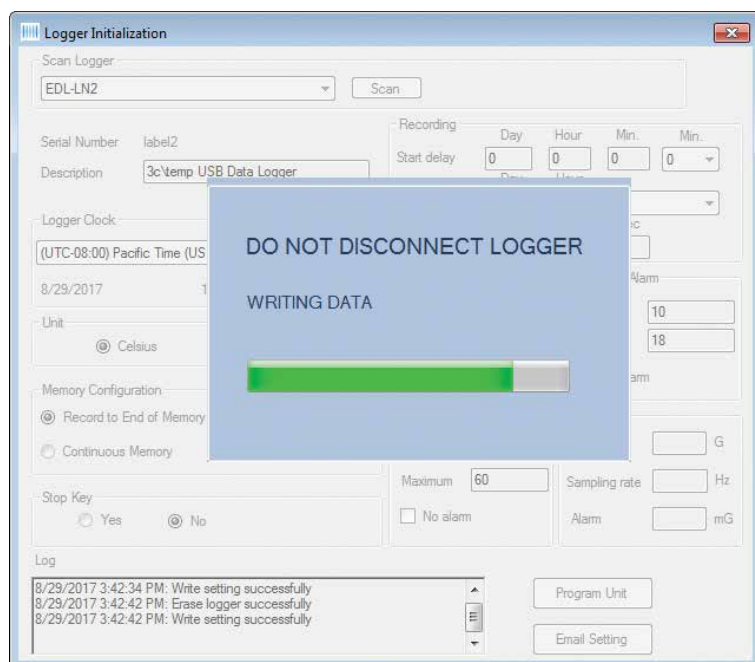
- 1**: Scan button
- 2**: Description field (3c\temp USB Data Logger)
- 3**: Logger Clock dropdown menu (UTC-08:00 Pacific Time (US & Canada))
- 4**: Unit radio buttons (Celsius selected)
- 5**: Start delay dropdown menu (0)
- 6**: Duration dropdown menu (4)
- 7**: Interval dropdown menu (0)
- 8a**: Alarm Minimum field (10)
- 8b**: Alarm Maximum field (20)
- 8c**: Alarm Quarantine field (0)
- 8d**: No alarm checkbox
- 9**: External Alarm section (Minimum 10, Maximum 18, No alarm checkbox)
- 10**: Humidity section (Minimum 20, Maximum 60, No alarm checkbox)
- 11**: Stop Key radio buttons (No selected)
- 12**: Program Unit button
- 13**: Log button

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- 6) Select the **Duration** of recording time. The **Sampling Interval** will be automatically calculated.
- 7) Or, select the **Interval**, desired. The **Duration** will be automatically calculated.
- 8) **Alarm:**
 - a. If you want a High Alarm, enter the temperature for the **Maximum**.
 - b. If you want a Low Alarm, enter the temperature for the **Minimum**.
 - c. **Quarantine** allows setting how many measurements taken outside the alarm limits is acceptable. For example, if the measurement interval is 1 minute, and the environment cannot exceed those limits for more than 5 minutes, then you would enter a 5 into the quarantine field. If more than 5 measurements are taken, then "Quarantine" will be showed on the display and reports. Not all logger models support this function.
 - d. If you don't want an Alarm, click the **No Alarm** button.
- 9) For loggers with external probes, enter the **Maximum** and **Minimum** Alarm values for the external sensor.
- 10) For loggers with Humidity sensors, enter the Maximum and **Minimum** Alarm values.
- 11) Under **Stop Key**, click **Yes** to allow the logger to be stopped manually (by holding down the start button for 4 seconds while the logger is recording). To disable this feature, click the **NO** button.
- 12) Click **Program Unit** to write the new configuration to the logger.

The progress bars will appear and **Event Log (13)** will update with Write Successful and End Settings successful.

The device is ready to run. To **Start Recording**, press and hold the START button on the unit until the green light flashes, or the display indicates that the unit is recording.

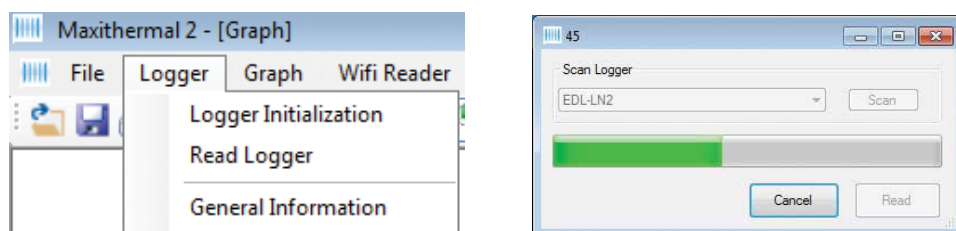


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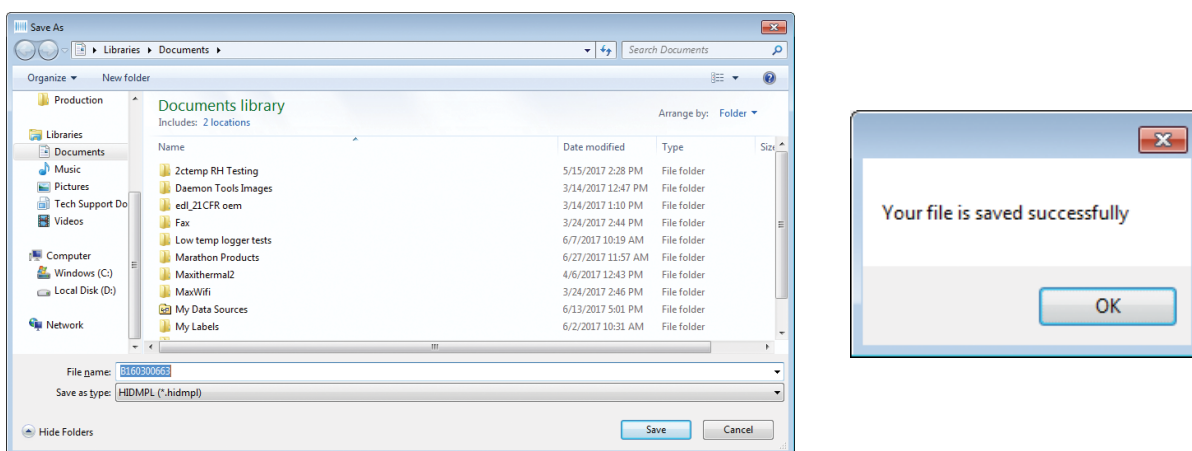
Reading the Logger:

Begin by starting the MaxiThermal2 software, connect the USB cable, reader station, or plug the device into the computer USB port.

On the menu bar select **Logger -> Read** Logger in the drop-down menu.

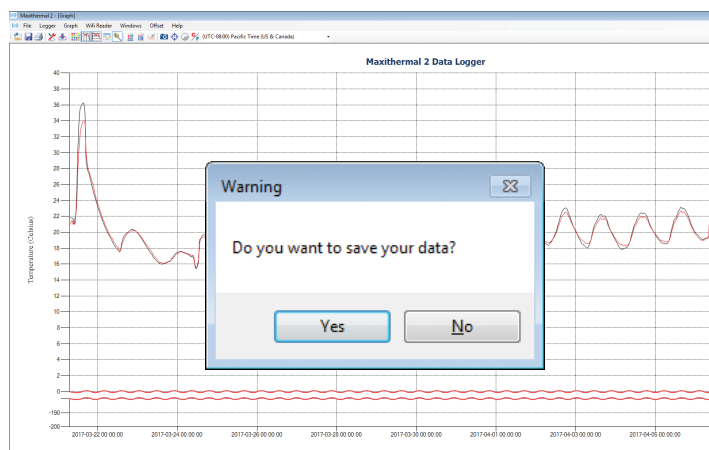


When the progress bar fills up, the Windows file explorer opens to choose a location to save the file. A dialog box will pop up once the location has been chosen letting you know the file has been saved successfully.



Next, all windows will close automatically and the graph is displayed.

When you close the plot a warning window will open which asks if you want to save the data. Click **Yes** or **No**. the file has already been saved. Unless the file has been modified (e.g. titles changed), click No.

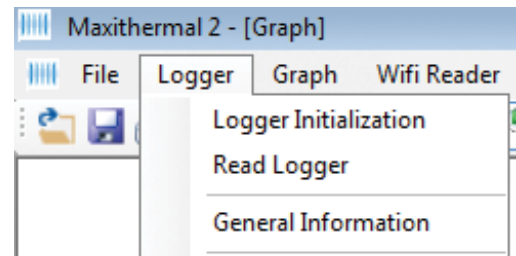


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Creating Reports:

On the menu bar select **Logger -> General Information** in the drop-down menu.

The General Information window will open. Click **Read**. The software will read the logger's information and fill in the fields.



General Information window showing fields for Scan Logger (EDL-LN2), Serial Number, Firmware Version, Logger Mode, Description, Setting Time, Delay Time, Duration, Run Mode, Stop Key, Temperature and Humidity Interval, Ambient Low Alarm, Probe Low Alarm, Unit, Ambient High Alarm, Probe High Alarm, Vibration Interval, Sampling rate, Fullscale, Alarm limit, and buttons for Print and Read.

General Information window showing populated fields: Serial Number (B160300663), Firmware Version (v4.1), Logger Mode (Multiple Use), Description (jc\Temp USB Data Log), Setting Time (8/29/2017 3:42:50 PM), Delay Time (0 day(s) 0h:0m), Duration (4 day(s) 0 hour(s)), Run Mode (Record to End), Stop Key (No), Temperature and Humidity Interval (6s), Ambient Low Alarm (10), Probe Low Alarm (10), Unit (Celsius), Ambient High Alarm (20), Probe High Alarm (18), Vibration Interval, Sampling rate, Fullscale, Alarm limit, and buttons for Print and Read.

On the Menu bar select **Graph -> Summary** in the drop-down menu, or click the Summary icon. The Summary Information window will open where you can scroll through the logger information.

Summary window showing detailed logger information:

- Setting Information:**
 - Unit: Celsius
 - Duration: 180 day(s) 0 hour(s)
 - Delay start: 0 day(s) 0h:0m
 - Configured Mode: Multiple Use
- Logger Information:**
 - Serial number: B170100002
 - Memory size: 8k data Thermistor, 8k data RTD
 - Description: Marathon
 - Firmware version: v4.6
 - Run Mode: Record to End
 - Over Memory: No
- Time information:**
 - Setting time: 3/20/2017 3:40:31 PM
 - Start time: 3/21/2017 7:32:08 AM
 - Stop time: 4/6/2017 12:41:18 PM
 - Elapse time: 16 day(s) 5h:9m:8s
- Measurement:**
 - Sample interval: 0h:33m:6s
 - Number of measurements: 705

Close button at the bottom right.