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Initializating MicroDL Temperature Data Loggers

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Initializating the Logger:

1) Start the MDAS-Pro software by double clicking on the icon.

2) Plug the MicroDL reader USB into your PC. Turn the MicroDL display on by pressing the black Start Button. The display will stay on for four minutes before hibernating.

3) Place the MicroDL into the reader station, with the display side down, while the display is still ON in order to communicate with the computer.

On menu select **Logger** and then click on **Read Logger** in the drop down menu.

4) The Logger Initialization screen will appear.

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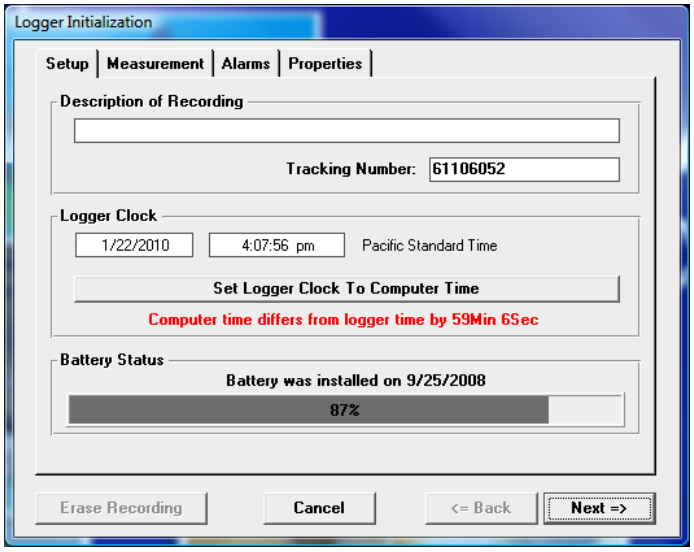
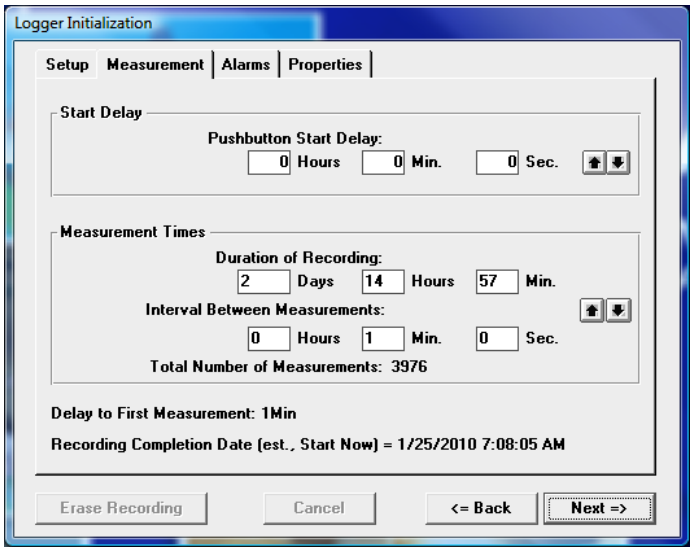
Setup Tab:

- **Description:** Enter alpha-numeric information, such as the location of the unit.
- **Tracking Number:** Enter numeric information, such as a record number for shipping or receiving.
- **Logger Clock:** Set the time manually in the window, or set the logger time based on the time on your PC.
- **Battery Status:** This displays the date when the battery was installed or replaced.



Measurement Tab:

- **Start Delay:** Set a time delay in either hours, minutes, or seconds before the unit will begin to record.
- **Measurement Times:** Set the length of time in days or hours that you wish to record data. Please note that the Duration of Recording and Interval Between Measurements are dynamically linked.



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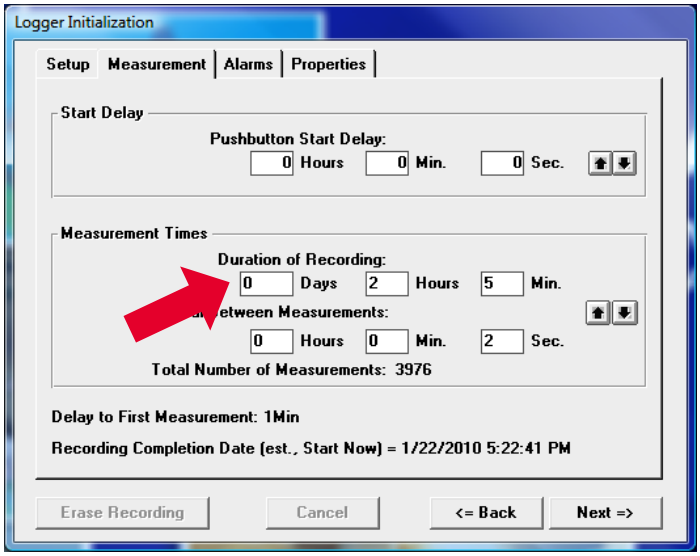
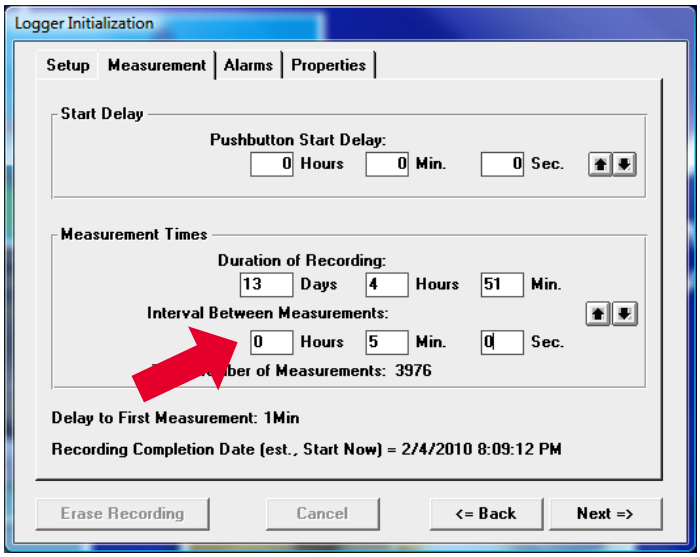
Setting the Duration:

Setting the Duration of Recording will automatically calculate the Interval Between Measurements. Conversely, setting the Interval Between Measurements, will automatically calculate the Duration of Recording. For example, if you set the Duration of Recording to 3 Days, it will automatically calculate the Interval Between Measurements as 34 seconds. Or, if you set the Interval Between Measurements at 15 minutes, it will automatically calculate the Duration of Recording to 79 days and 21 hours.





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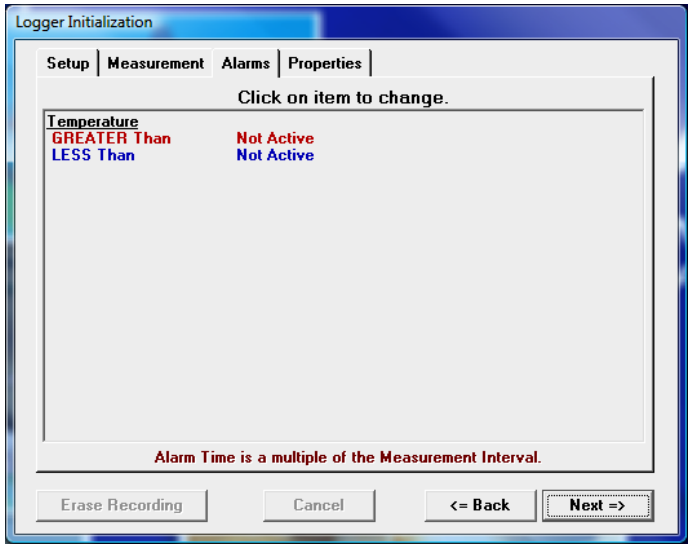
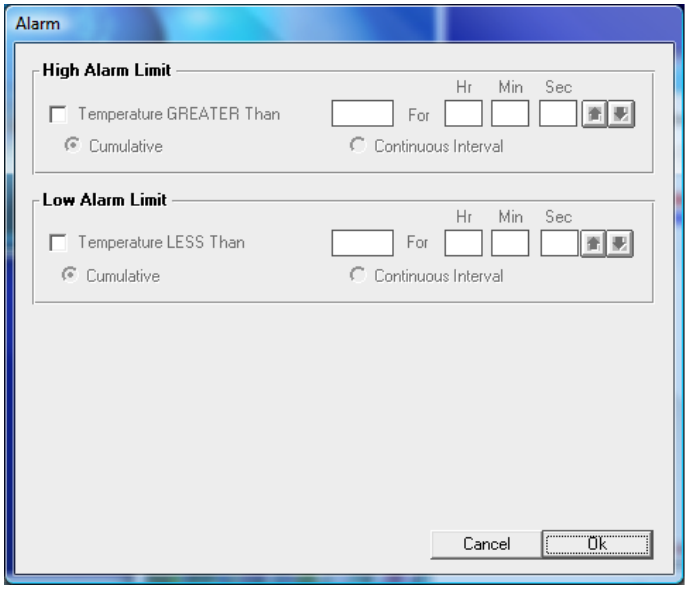
Alarms Tab:

- **Temperature GREATER Than:** Set the maximum temperature for an alarm condition to be triggered.
- **Temperature LESS Than:** Set the minimum temperature for an alarm condition to be triggered.
- **Continuous:** Time over or under the alarm continuously.
- **Cumulative:** Total cumulative time over or under the alarm.



Check the High Alarm Limit or Low Alarm Limit if you want to enable the flashing LED alarm indicator.



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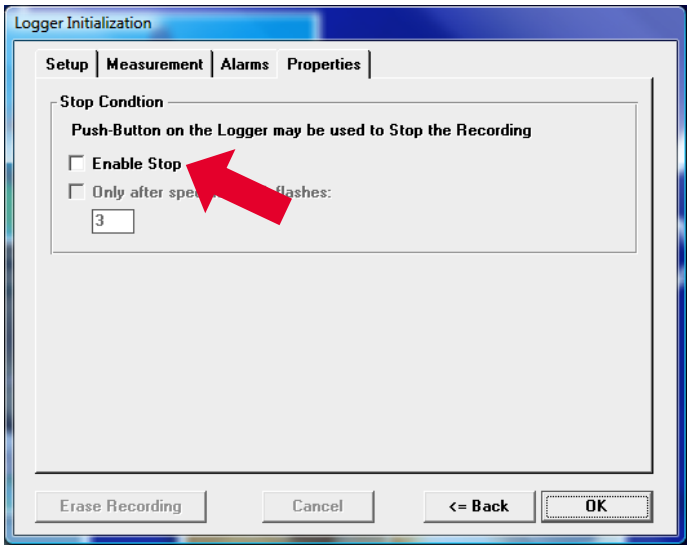
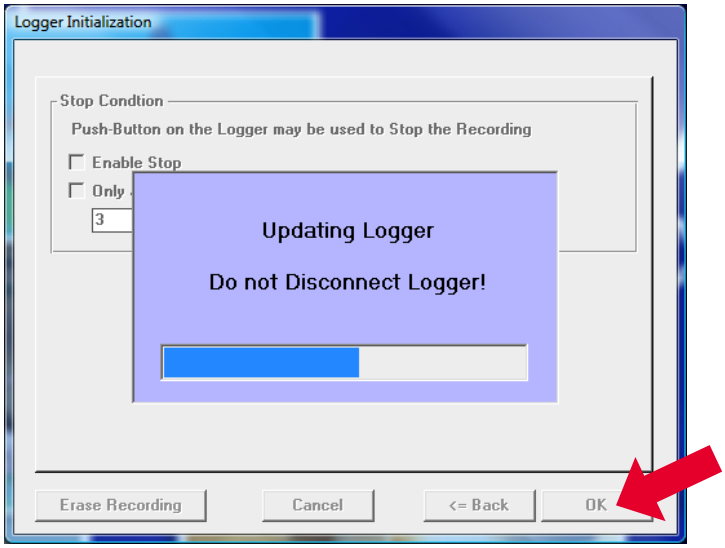
Properties Tab:

- **Stop Condition:** The Push Start button on the logger may be enabled as a Stop button mechanism. Check the Enable Stop box if you want to be able to stop recording. Note that the device cannot be restarted after pushing the Stop button.
- **Memory Configuration:** The memory may be configured two ways. The default is Record to End of Memory (recommended). The other is Continuous which writes over the oldest data.



Push **OK** to update the firmware in the logger. Wait until the updating is finished before disconnecting the logger.



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Starting the Logger

Remove the device from the reader station and press and hold the black Start Button for 7 seconds until the RUN displays.

To confirm that the logger has been started, REC will appear in the upper left of the display.

The MicroDL is now recording. The unit can be placed in the location that should be monitored.

DISPLAY EXAMPLES

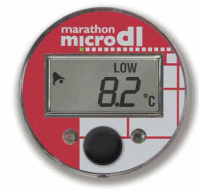
Press the Start button to see the following information display with each press:

1. REC: 8.6°C
shows recording and current temperature

2. RUN: 11 D
shows elapsed time in days

3. MKT: 9.1°C
shows mean kinetic temperature

4. HI: 15.2°C
shows alarm has occurred and high temperature



5. LOW: 8.2°C
shows alarm has occurred and low temperature

6. HI HR: 0.3
shows alarm time hours over high threshold

7. LOW HR: 1.1
shows alarm time hours over low threshold

8. REC: 8.6°C
Push to return to current temperature