

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. Marathon Products, Inc. MDAS-Pro v2.1.11 Logger Graph Help Logger Initializati Read Logger General Information 1ARATHON PRODUCTS, INC. Real Time Display... Start Logger Stop Recording Alarm Reset DAS-Marathon Data Analysis Software Analytical solutions for monitoring the environment. Don't ship without us!" www.marathonproducts.com

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.

Logger Initialization					
Setup Measurement Alarms Properties					
Description of Recording					
Tracking Number: 61106052					
Logger Clock					
1/22/2010 4:07:56 pm Pacific Standard Time					
Set Logger Clock To Computer Time					
Computer time differs from logger time by 59Min 6Sec					
Battery Status Battery was installed on 9/25/2008					
87%					
Erase Recording Cancel <= Back Next =>					

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.

Logger Initialization						
Setup Measurement Alarms Properties						
Start Delay						
Pushbutton Start Delay: 0 Hours 0 Min. 0 Sec.						
┌ Measurement Times						
Duration of Recording:						
2 Days 14 Hours 57 Min.						
Interval Between Measurements:						
0 Hours 1 Min. 0 Sec.						
Total Number of Measurements: 3976						
Delay to First Measurement: 1Min Recording Completion Date (est., Start Now) = 1/25/2010 7:08:05 AM						
Erase Recording Cancel <= Back Next =>						

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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.

Logger Initialization					
Setup Measurement Alarms Properties					
Start Delay Pushbutton Start Delay: 0 Hours 0 Min. 0 Sec.					
Measurement Times Duration of Recording: 0 Days 2 Hours 5 Min. etween Measurements: 0 Hours 0 Min. 2 Sec. Total Number of Measurements: 3976					
Delay to First Measurement: 1Min Recording Completion Date (est., Start Now) = 1/22/2010 5:22:41 PM					
Erase Recording Cancel <= Back Next =>					

Logger Initialization					
Setup Measurement Alarms Properties					
Start Delay					
Pushbutton Start Delay:					
0 Hours 0 Min. 0 Sec. 👔]				
Measurement Times					
Duration of Recording:					
13 Days 4 Hours 51 Min.					
Interval Between Measurements:					
0 Hours 5 Min. 0 Sec.					
ber of Measurements: 3976					
Delay to First Measurement: 1Min					
Recording Completion Date (est., Start Now) = 2/4/2010 8:09:12 PM					
Tecording completion date (est., start Nom) - 27472010 0.05.12 1 m					
Erase Recording Cancel <= Back Next =>					

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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.

Logger Initialization					
	Setup Measurement Alarms Properties				
Click on item to change.					
	Immediate GREATER Than Not Active LESS Than Not Active				
	Alarm Time is a multiple of the Measurement Interval.				
	Erase Recording Cancel <= Back Next =>				

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

Alarm High Alarm Limit Temperature GREATER Than Cumulative	Hr Min Sec
Cow Alarm Limit	Hr Min Sec
	Cancel Cancel

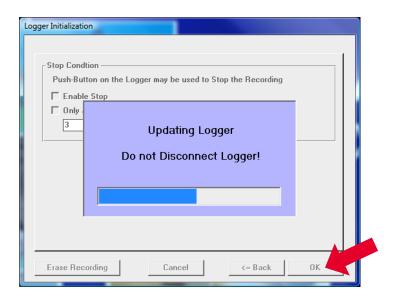
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Properties Tab:

- **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.

Logger Initialization					
Setup Measurement Alarms Properties					
Stop Condtion					
Push-Button on the Logger may be used to Stop the Recording					
Enable Stop					
Conly after spectrum gashes:					
3					
Erase Recording Cancel <= Back OK					

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



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



2. RUN: 11 D shows elapsed time in days



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



3. MKT: 9.1°C shows mean kinetic temperature



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



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



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