MARATHON PRODUCTS, INC.

edl family of wireless devices

WARNING: Observe a minimum distance of 39 inches (1.0 m) between edl-RF2 and/or edl-M5 devices and between loggers and base stations. Transmitting at 1-Watt power output in close proximity of other modules can damage internal radios.

MDAS-Pro Software Installation

MDAS-Pro software runs on Microsoft Windows XP and Vista operating systems.

- The CD-ROM will begin installation when inserted in the drive.
- Choose SOFTWARE PROGRAM, to begin the installation process of the software.
- If for some reason, the CD program does not start, please go to START, RUN, BROWSE (go to your cd-rom drive), and SETUP, to begin the installation process.
- A screen will appear with the message Initializing Setup. You will be asked where to install the program. The default is c:\programs\ MDAS-PRO. If you wish to install the MDAS-PRO program on a different drive or in a different directory, type the drive and directory name.
- The installation program will now transfer files to your destination drive and directory.
- Following the installation of the program files, a Marathon program directory and two icons will be created: MDAS-PRO Software and the Alarm Monitor.

If your base station is connected to your local area network go to the ETHERNET BASE STATION INSTALLATION.

If your base station is connected directly to your PC by USB or serial cable then go to the LOCAL BASE STATION INSTALLATION.

QUICK START QUIDE

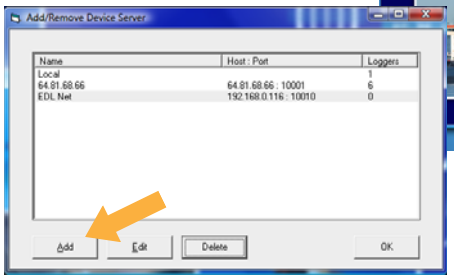
Ethernet Base Station Installation

Contact Marathon Products for the specific installation instructions for your Ethernet Base Station.

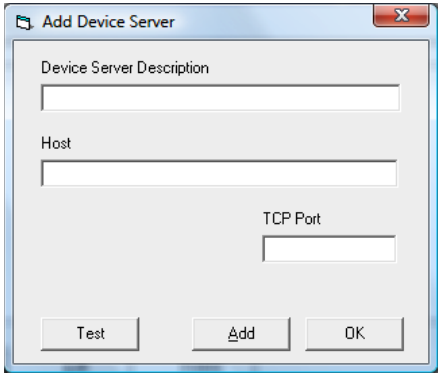
ADD DEVICE SERVERS

To start the software double-click on the software icon or, go to **Start, Programs, MDAS-PRO.**

- In the MDAS-Pro menu bar click on **EDL-Net**.
- In the drop down menu select ***Admin*** and click on ***Add/Remove Device Server***
- In the new window click on the ***Add*** button



- **Description:** For an Ethernet Base Station enter a description for the Server
- **Host:** Enter the IP address of your Ethernet base station.
  This address is obtained by following the Ethernet Base Station installation instructions.
- **TCP Port Number:** 10001
  This port number is assigned by Marathon and varies according to which base station is shipped.
- Then click **OK**.



Continue on to the *ADD LOGGERS* section.

Local Base Station Installation

(connected to PC by USB or RS232 Cable)

STEP ONE

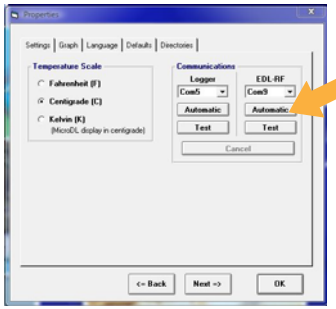
There are two USB drivers on the Marathon Products' CD that need to be installed.

- Use the USB cable to connect the USB Base Station to a USB port on your PC.
- Your PC will detect the new device and display "New Hardware Found" message.
- Click on "Add hardware Wizard" which will guide you through installation of the device.
- Select "Install from specific list or location (Advanced)"; click "Next".
- Select "Search for best driver in these locations" and check the "Search removable media (CD-ROM…)" box; click "Next".
- The Hardware Installation Windows Logo Testing alert is displayed. Click "Continue Anyway"; Click "Finish".
- Repeat the steps above to install the second driver.

STEP TWO:

To start the software double-click on the software icon or, go to **Start, Programs, MDAS-PRO.**

- Click on **File, Preferences**.
- Under the EDL-RF heading Click on **Automatic**. This will scan the comm. ports on your PC and find the Local Base Station.

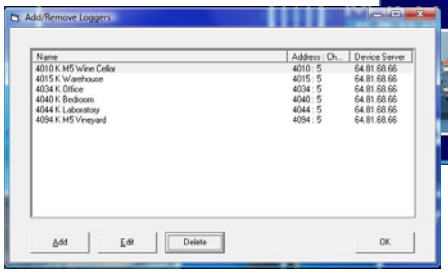


Continue on to the *ADD LOGGERS* section.

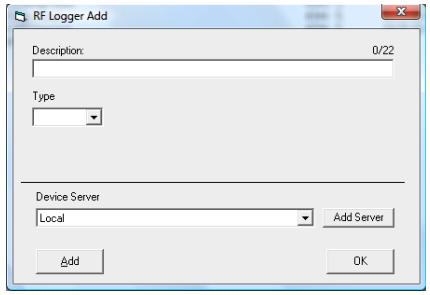
Add Loggers

To start the software double-click on the software icon or, go to **Start, Programs, MDAS-PRO**.

- In the MDAS-Pro menu bar click on **EDL-Net**.
- In the drop down menu select ***Admin*** and click on ***Add/Remove Logger***.
- In the Add/Remove Loggers screen click on ***Add***.



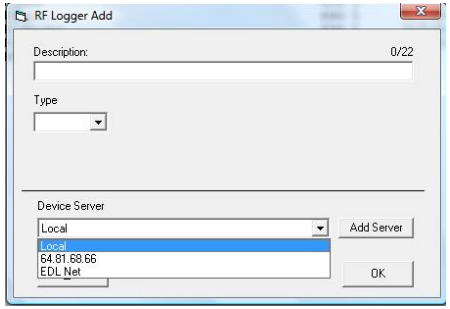
- **Description:** Enter any description for the logger, for example, the logger address and location "2263 Refrigerator A".
- **Type:** Select the logger model from the menu. The options are **edl, edl-net, edl-RF, edl-RF2 and M5**.



- **Logger Address:** The logger address is only required for the edl-RF, edl-RF2 and M5. Enter the logger address that is shown on the logger label, e.g. "2263"

- **Channel:** The channel number is only required for the edl-RF, edl-RF2 and M5.
  — The default channel number for local loggers is 5.
  — The default channel number for loggers using a relay station is 6. You can find the channel number on the logger label.

- **Wake-Up Time:** Use the default value. Do not change.
- **Device Server:** In the drop down menu
  — If you have a USB or RS232 Base Station select **Local**.
  — If you have an Ethernet Base Station select the **Host Ethernet Address.**



Logger Initialization:

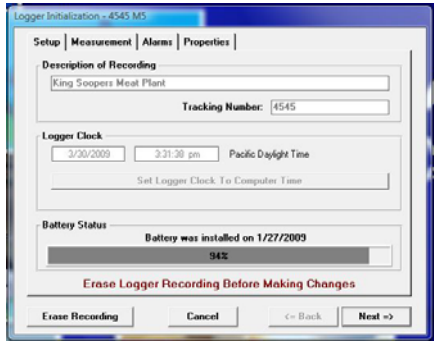
To configure the logger

In the MDAS-Pro menu bar click on **EDL-Net**.

- In the drop-down menu click on the **Logger** you just entered.
- Click on **Logger Initialization**.

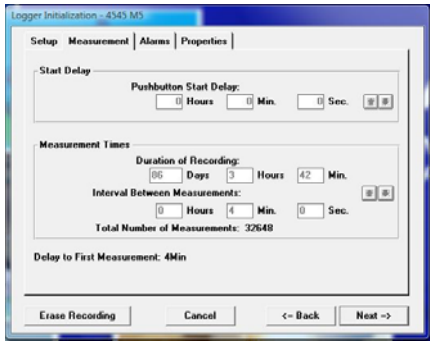
The Logger Initialization screen allows you to set up your parameters for the edl-M5 and/or edl-RF2 logger by using the four tabs: **Setup, Measurement, Alarms, and Properties**.

SETUP TAB



- **Description:** Enter alpha or numeric information, such as the location of the unit.
- **Tracking Number:** Enter any numeric information. We recommend using the same number as the logger address.
- **Logger Clock:** Set the time manually in the window provided or to set the logger-time based on the computer time as registered on your personal computer.
- **Battery Status:** The edl-RF2 logger comes with two sets of batteries: one set powers the RF module and the other one powers the logger. The percentage bar in this section displays the estimated battery life based on the date when the logger battery was first installed or replaced.

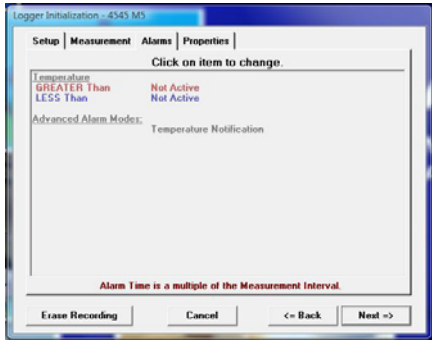
MEASUREMENT TAB



- **Start Delay:** Set a time delay in hours, minutes, or seconds before the edl-RF2 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. 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, for a 32K model, if you set the "Duration of Recording" to 365 Days, it will automatically calculate the "Interval Between Measurements" as 16 minutes and 58 seconds. Or, if you set the "Interval Between Measurements" at 10 minutes, it will automatically calculate the "Duration of Recording" to 215 days and 9 hours.

ALARMS



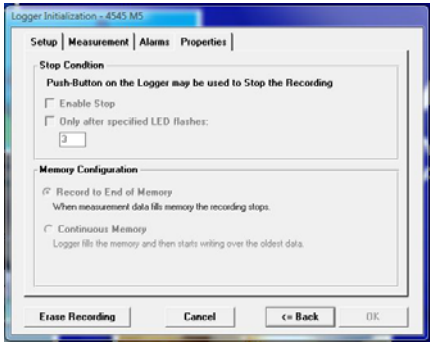
- **Temperature Greater Than:** Allows you to set the maximum temperature for an alarm condition to be triggered.
- **Temperature Less Than:** Allows you to set the minimum temperature for an alarm condition to be triggered.
- **Alarm Time:** Alarm conditions are checked when measurements are made. If measurements are made every 5 minutes, then the valid intervals for the Alarm conditions are 0, 5, 10, 15, … etc. A zero time is interpreted as a single measurement. In this example, five minutes would require two measurements outside the alarm limits to cause an alarm condition.

The loggers support two different methods of measuring the time for an alarm condition. The default method is "Cumulative Time". The total time beyond the limit is counted. The alarm limits may be exceeded only once or several times as the total time is added together. The second method is called "Continuous Interval". The alarm will activate only when the alarm limit has exceed the full time specified. If the temperature returns to the acceptable range the time count will be reset.

ADVANCED ALARM MODES (NOTIFICATION):

- **Single Alarm Notification:** with "Single Alarm Notification" the logger must be reinitialized to reset the alarm. This option allows you to set alarm time.
- **Manual Reset:** With "manual reset" you can reset the alarm by pressing the Start button. This option allows you to set alarm time.
- **Temperature Notification:** With "Temperature Notification" the edl-RF2 will send an email every time the temperature reaches the alarm limit, in other words, it resets itself. You cannot set an alarm time with this option. You can control the frequency of the emails from Admin/ Alarm Setting/ Time between email notifications.

PROPERTIES



- **Stop Condition:** The Push Start button on the edl-RF2 logger may be enabled as a "Stop" button mechanism. This option is not recommended if you are using the manual alarm reset notification.
- **Memory Configuration:** The default is Record to End of Memory.

Note: The recording can also be stopped by using the remote stop from the software.

- When you are finished entering your settings click **OK**.

You are now ready to begin recording.

- Simply manually press the Start button or click on remote start from the software, EDLNet_(logger description)_Start_Recording_Now.
- The green LED indicator light will blink three times in succession.