



MARS (Monitoring and Reporting System)
Quick Installation Guide

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1. Installation

1.1 MARS PC Software Installation

Prior to installing MARS PC Software, ensure that all programs running within windows are closed. Insert the CD into the CD drive, select the **Start** button, select **Run...** and browse to the CD.

Step 1: Install USB Utility

The USB Utility is used to configure the TCP/IP settings of the Mars. To install the USB Utility, browse to “setup.exe” in the USB_UTILITY directory, select it, then select **OK**. Follow the installation instructions.

Step 2: Install Mars software (Master or Monitor)

Note: The Master software has all features enabled, while the Monitor has limited features. See the complete Mars manual for more information.

Browse to “setup.exe” in the Master or Monitor directory depending on which version you intend to install, select it, then select **OK**. Follow the installation instructions.

Step 3: Install USB driver

The USB Utility will not be functional until the USB driver is installed on the PC.

To install the USB driver on the PC, it is first necessary to power the Mars unit and connect it to the PC as follows:

NOTE: The Mars equipment is STATIC SENSITIVE, please ensure that you are properly grounded before continuing.

1. Connect the 12V D.C. power adapter (included) into the “+12VDC” jack located on the rear of the MARS chassis. Plug the other end of the adapter into an AC outlet.

NOTE: There should be a **Green Power LED** on the front of the chassis.

2. The two port Power Strip is powered separately with an additional AC cord (also included). Plug the “D” shaped end of the cord into the “120 VAC” connector located on the rear of the chassis. Finally, plug the AC cord into a 120VAC outlet.

3. Using the USB cable provided, connect one end to the chassis and the other end to an available USB port on the computer. The PC should detect new hardware and start a hardware installation Wizard.

For **Windows 98/Me** follow instructions on page 2 of the **Mars USB Manual** to complete the USB driver installation.

For **Windows 2000/XP** follow instructions on page 6 of the **Mars USB Manual** to complete the USB driver installation.

Step 4: Complete the initial TCP/IP setup as per instructions in the **Mars USB Manual** to provide a TCP/IP configuration to the Mars. Once this step is completed, remove the USB cable and install the chassis in its permanent location.

1.2 MARS hardware installation

Assuming the Mars is powered as per the instructions above, you may now make the rest of the connections:

- **RJ-45 Ethernet Connector:**
Connect a Category 5 cable from the RJ-45 connector on the MARS to an available access point (such as a hub, switch or router/gateway) on a Local Area Network (LAN) or Wide Area Network (WAN). Note that the Green LED indicates that a Link was established with the network, the AMBER LED indicates activity on the network.
NOTE: There is a LINK and LAN LED indicators on both the front of the chassis as well as at the connector located on the rear of the chassis.
- **RF Input:**
The RF input should be a combined output of all channels that are to be monitored. The level can be between 0 dBmV and +25dBmV, ideally the level should be approximately +15 dBmV, with all signals within a window of +/- 3dB.
- **I2C Input connector (optional):**
This is the input connector for connecting all other MARS external sensor modules. The external sensors are all “daisy chain” connected through each other and finally connected to the I2C connector on the rear panel of the MARS.
- **Activity LED:**
When the LED is **RED** this indicates that the MARS module is communicating.
- **Reset:**
When this button is depressed, the MARS RF will perform a hard reset.
- **Prog:**
This port is used for updating the firmware in the MARS RF unit, and should be left unconnected.

2. Operating the MARS

2.1 Getting the MARS to Communicate via TCP/IP

- Start the MARS software application on the PC by selecting it from the Start Menu. The main screen will appear.
- Open the Mars database (which is used to store configuration information), by selecting **File/Open database**. When prompted for a password, enter the **user password** or the **admin password**. (NOTE: The default **user password** is ‘1234’ and

the default **admin password** is '2345' *). Browse to the location of the "Mars.mdb" file (default path is "Program Files\Mars), select it and then select **Open**.

*Note: In the event that either password is unknown, it is possible to clear the existing password(s) and then enter new passwords(s). Selecting **Tools, Password Administration**, submit the Product ID, Checking the appropriate checkboxes and selecting **OK** clears the current passwords. Select **Close** to exit Password Administrator. (Note: The default Product ID for Demo Systems is "12345").

- Configure the Mars TCP/IP settings on the PC

Select **Tools, Database Manager, Site Manager** and provide the administrator password. Enter the IP of the Mars beside the Mars IP label. Note that this is the IP address that was specified earlier in the USB setup.

If the Mars is on a LAN:

Next to the label "Mars is connected to a:" select 'LAN'. Then enter the Public IP address beside the Public IP label.

If the Mars is on a WAN: (eg. Mars is connected directly to a cable modem)

Next to the label "Mars is connected to a:" select 'WAN'. Then enter the Public IP address beside the Public IP label. Note: both the MARS IP and the Public IP will be the same on a WAN.

Enter the gateway IP beside the Gateway IP label to enable the Mars to report to other PC's. At this time you may enter the IP addresses of up to 4 PC's that you would like the Mars to report faults to. This may also be done later.

- NOTE: Initially, all MARS sites are de-activated, and therefore will not provide status records or report faults until it is activated. To activate the MARS site go to **Tools, MARS Configuration**, enter the admin password, then place a check mark in the box next to "Activate Site", select **Close** to exit the MARS configuration screen to return to the main screen, and finally select the **Connect** button. The PC will activate the Mars. Once the site is activated it is now capable of monitoring the status at the Mars site.

Refer to the manual to set up the Mars site Monitoring configuration. (ie. Channels, sensors, etc)

3. Support

If you have questions about this product, contact us as follows:

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