E2 Setup with the MRLDS-550 for 527-0650

The MRLDS-550 (*P/N 809-1022*) requires adding a description file (*P/N 527-0650)* and a license key to E2.

Contact Customer Service to obtain this information:

- **Email:** ColdChain.CustomerService@copeland.com
- **Phone:** 770-425-2724 Option 4

New Installation: Uploading the MRLDS-550 Description File to E2

Note that UltraSite 32 software should be installed to perform a description file upload.

1. Connect to E2 using UltraSite32 (refer to the *UltraSite32 Manual P/N 026-1002*).

2. Launch UltraSite program and enter "**USER**" in the **Username** field and "**PASS**" in the **Password** field to login.

3. Double-click UltraSite to view the **Directory Level** and **Site Level** (see **Figure 1**).

4. Right-click **Site Level** and click **Connect**.

5. Double-click **Site Level** and locate the E2 where the **MRLDS_550.dsc** will be installed.

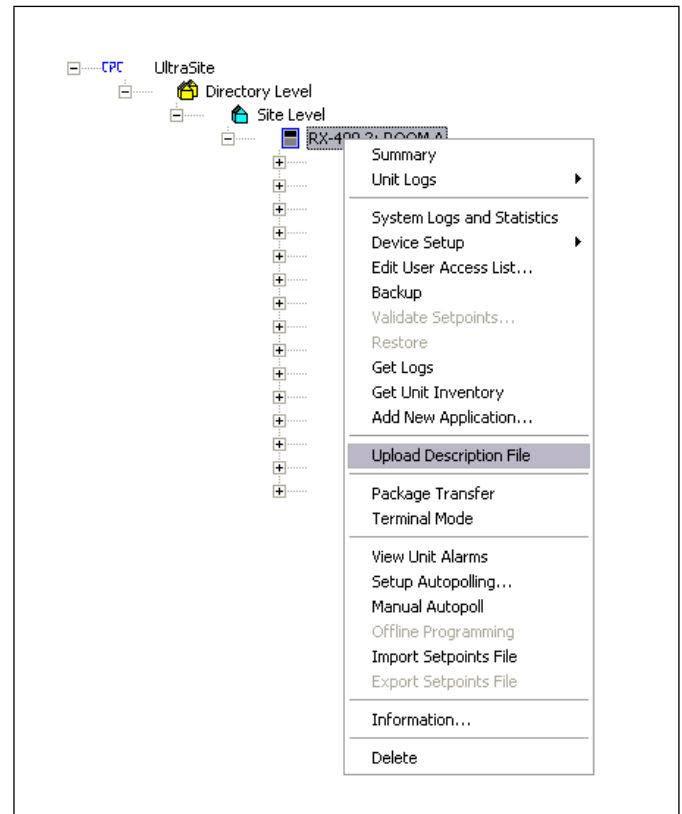6. Right-click the unit and select **Upload Description File**.

Figure 1 - UltraSite Directory Level

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7. Click **Browse** to select the appropriate description (∗.dsc) file for **MRLDS_550.dsc** from the computer and click **Open**.
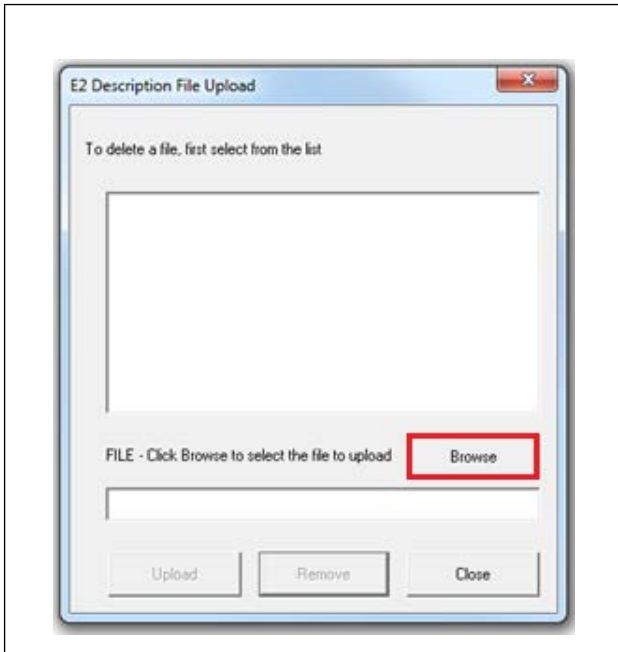

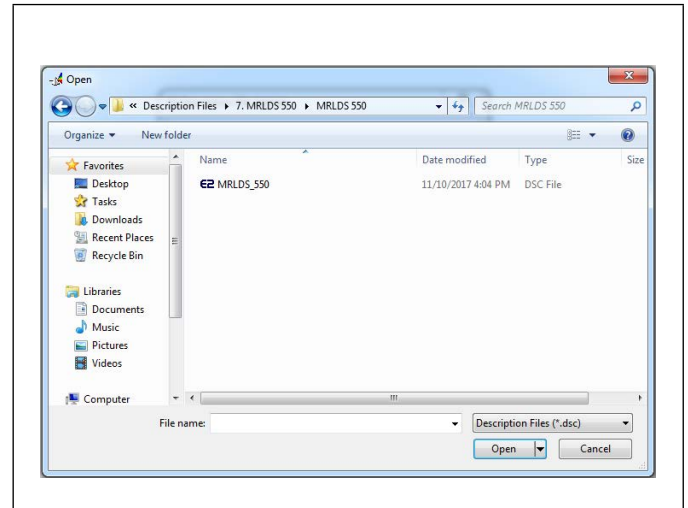Figure 2 - Browse E2 Description File

Figure 3 - Select E2 Description File

8. Click **Upload**. A window will display that the description file was successfully imported. Click **OK**. The description (∗.dsc) file should appear inside the window.
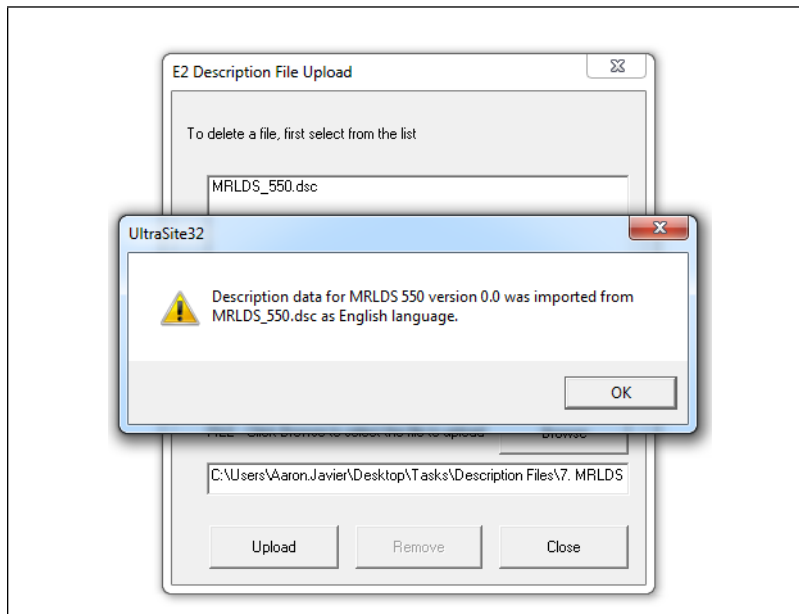

Figure 4 - E2 Description File Upload

9. Once completed, disconnect from the E2 and reboot the E2 controller — either manually with the toggle switch or remotely through Terminal Mode.

   Note: Do not omit step of rebooting the controller.

Entering the License for the MRLDS-550

1. Log into the E2 by pressing the [Log In/Out] (Login/Logout) key and enter "**USER**" in the **Username** field and "**PASS**" in the **Password** field.

2. Press [Menu] then ([**&7**], [**(9**]) to enter **Licensing** and press [**F1**] to add the description file license.

3. Enter the 16 alphanumeric characters provided by Technical Support and press [Enter] to save.
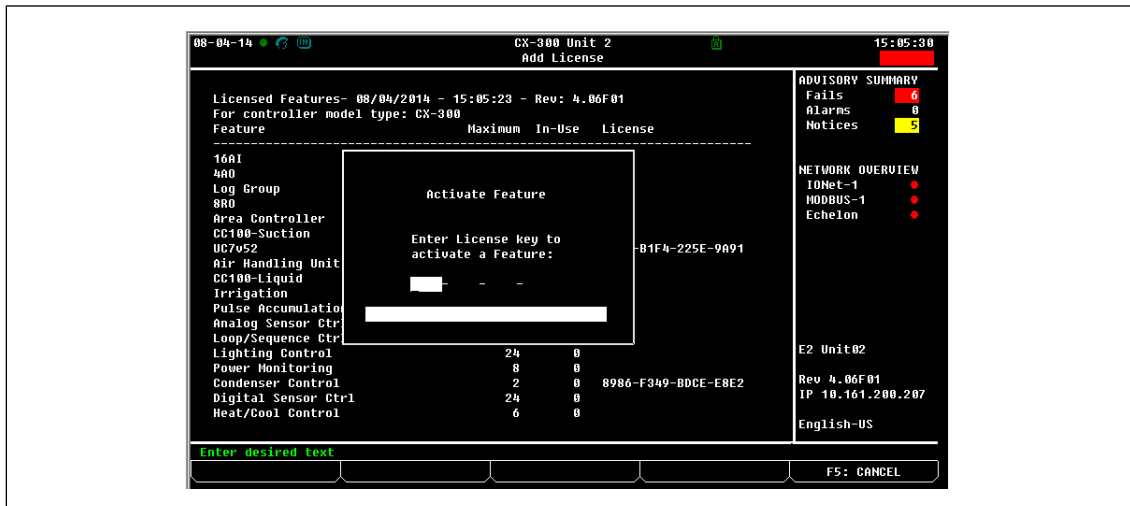

Figure 5 - Adding MRLDS-550 License

Device Setup

E2 Serial Port Setup

1. Log into the E2 controller by pressing [Log In/Out] (Login/Logout) key.

2. Enter "**USER**" in the **Username** field and "**PASS**" in the **Password** field and press the [Log In/Out] (Login/Out) key.

3. Press [Menu] then ([**&7**], [**#3**], and [**!1**]) - (**General Controller Information**), then press [**F2**] twice to move to the **C3: Serial** tab.
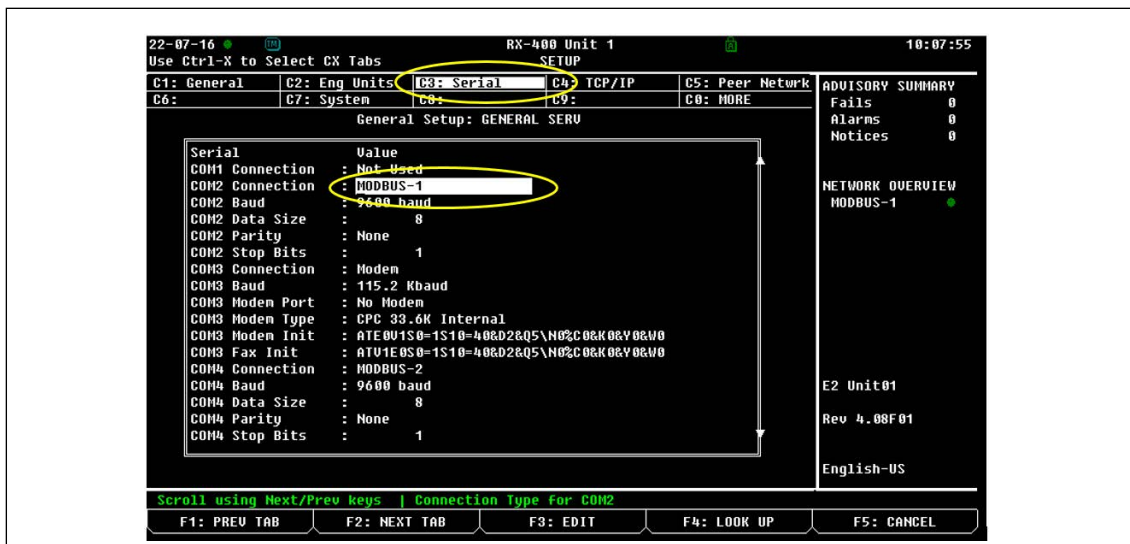

Figure 6 - Port Setup Screen

4. Press the down ⬇ arrow to the COM Connection to where the device is wired.

5. Press **F4** (**LOOK UP**) and select **MODBUS-1** (if MODBUS-1 is being used, select MODBUS-2 or MODBUS-3 connection), then press **Enter** to set configuration.

6. Press **F4** to select options and set the **MODBUS** connection as follows:

COM Baud:	9600 Baud
COM Data Size:	8
COM Parity:	None
COM Stop Bits:	1

7. Press **Enter** to set configuration, then the ⌨ key to save the changes.

8. Press the 🏠 key to return to the **Home** screen.

MODBUS Connection
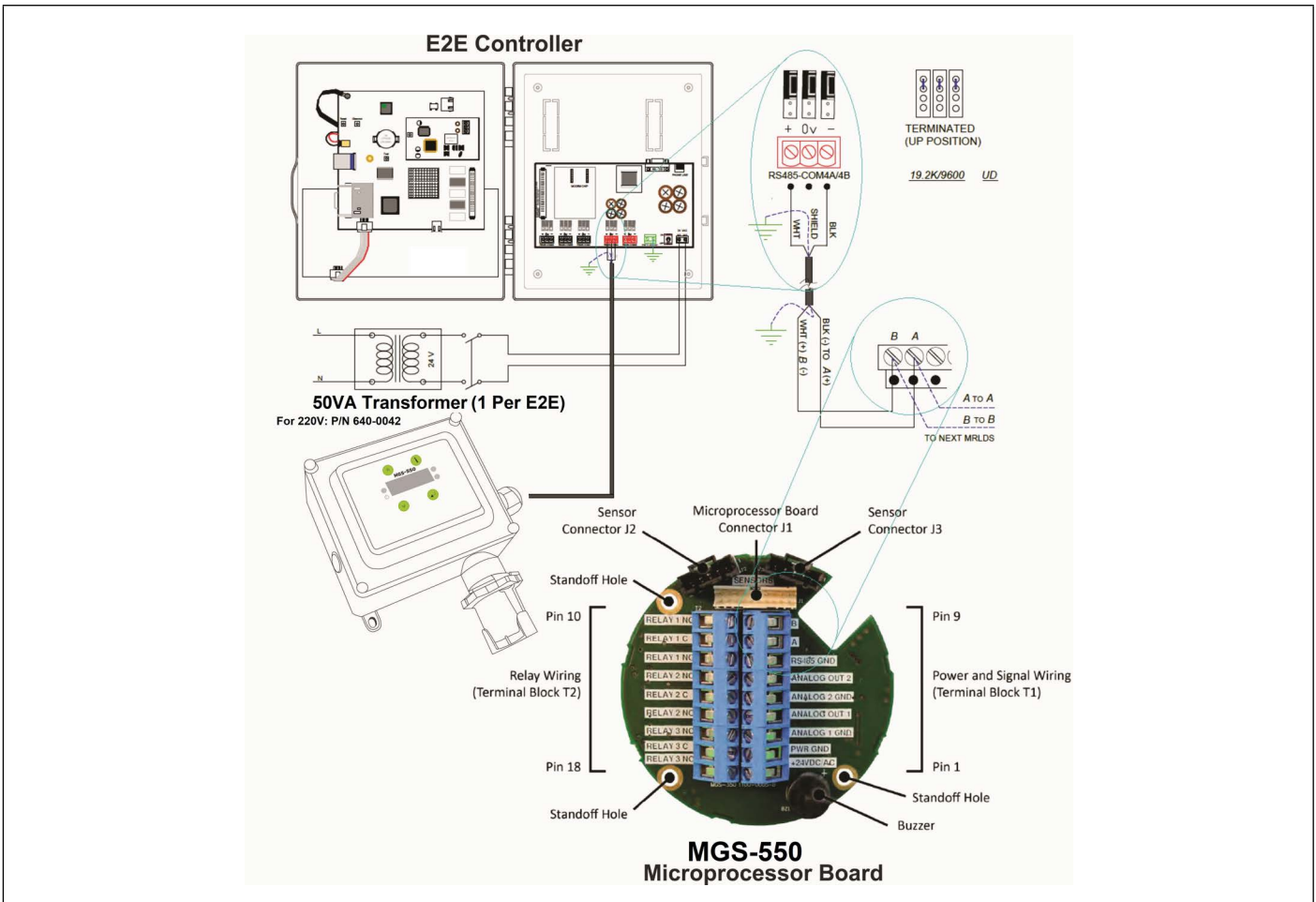
Figure 7 - MODBUS Connection

Note that the polarity of the RS485 MODBUS connection between E2 and the 550 is reversed.

Adding the MRLDS-550 Application on E2

1. Press ⬭Menu then �7️, �7️, and ⒉️ to enter **Connected I/O Boards and Controllers**.

2. Press ▮F2▮ twice to move to **C4: Third Party** tab. Highlight the **MRLDS 550** application and enter the desired number of devices under **Quantity**.
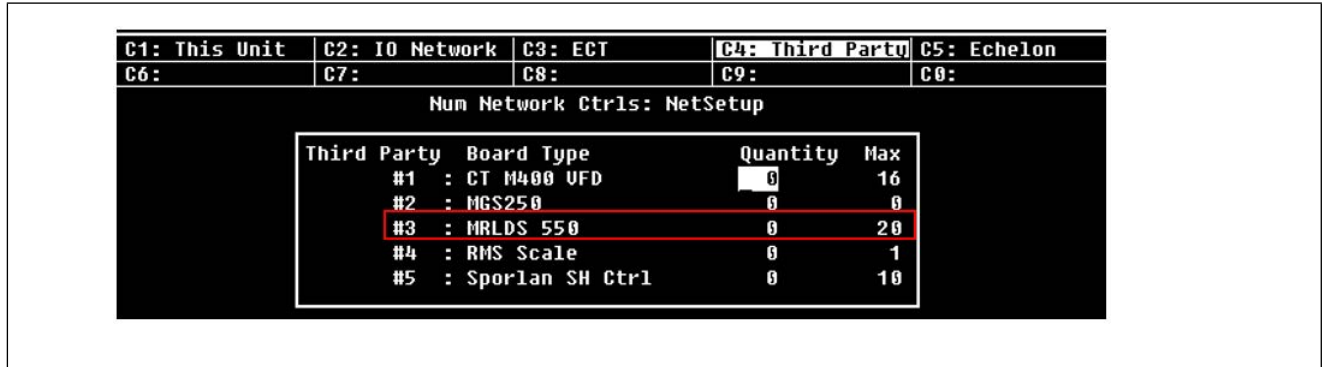
Figure 8 - Network Setup Screen

3. Press the back key to save the changes.

4. Press 🏠 to return to the **Home** screen.

Commissioning the MRLDS-550

1. Press ⬭Menu then �7️, �7️, and ⒈️ to enter the **Network Summary** screen.

2. Highlight the MRLDS-550 to be commissioned and press ▮F4▮.
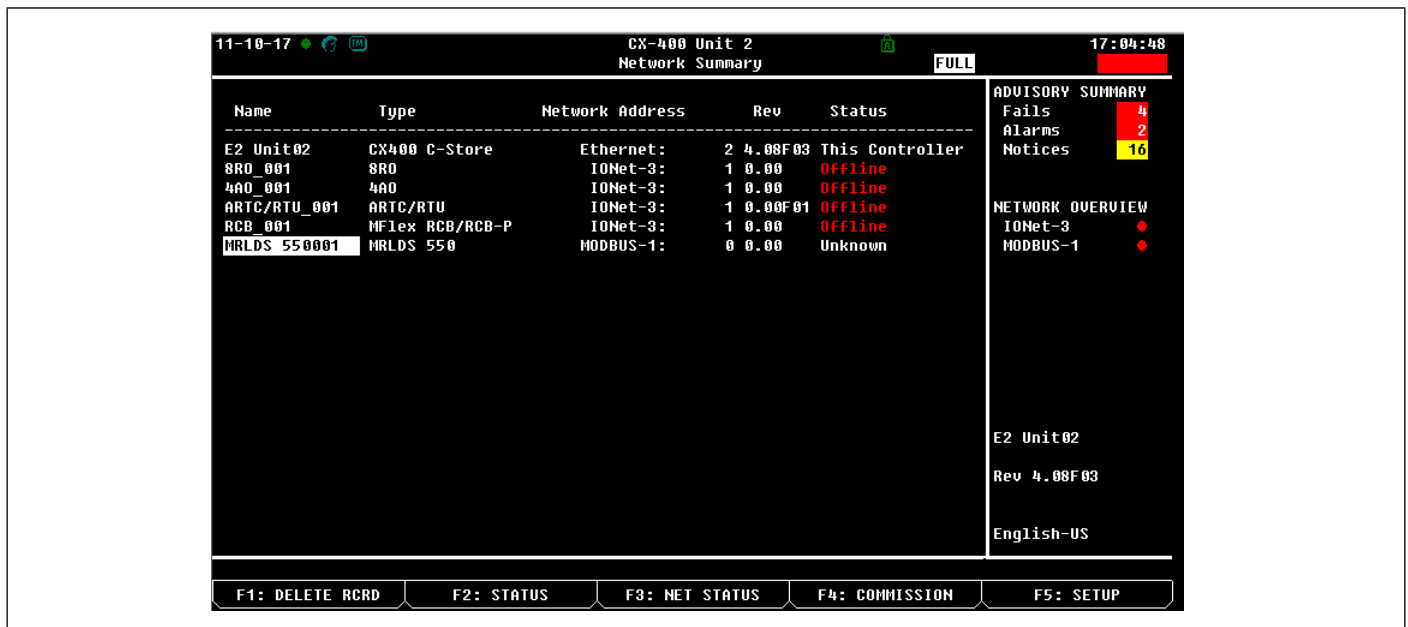
Figure 9 - Network Summary Screen

3. If a box with **Select Network** appears on the screen, select the MODBUS number where you configured the device — either **MODBUS-1**, **MODBUS-2**, or **MODBUS-3** and press ⏎ Enter.
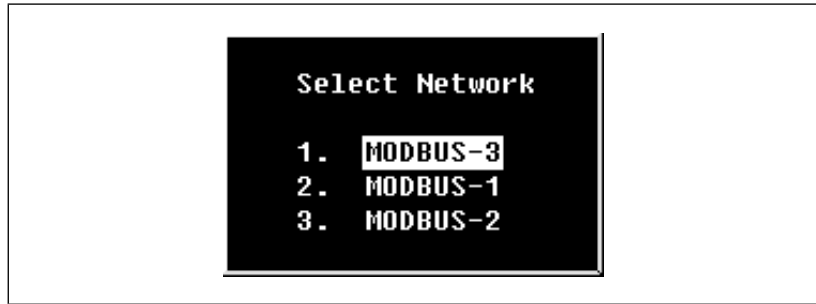

Figure 10 - Select Network Screen

4. Select the address for the device and press ⏎ Enter.

Figure 11 - Select Device Address Screen

Note that the MODBUS address must be the same as the address assigned on the device.
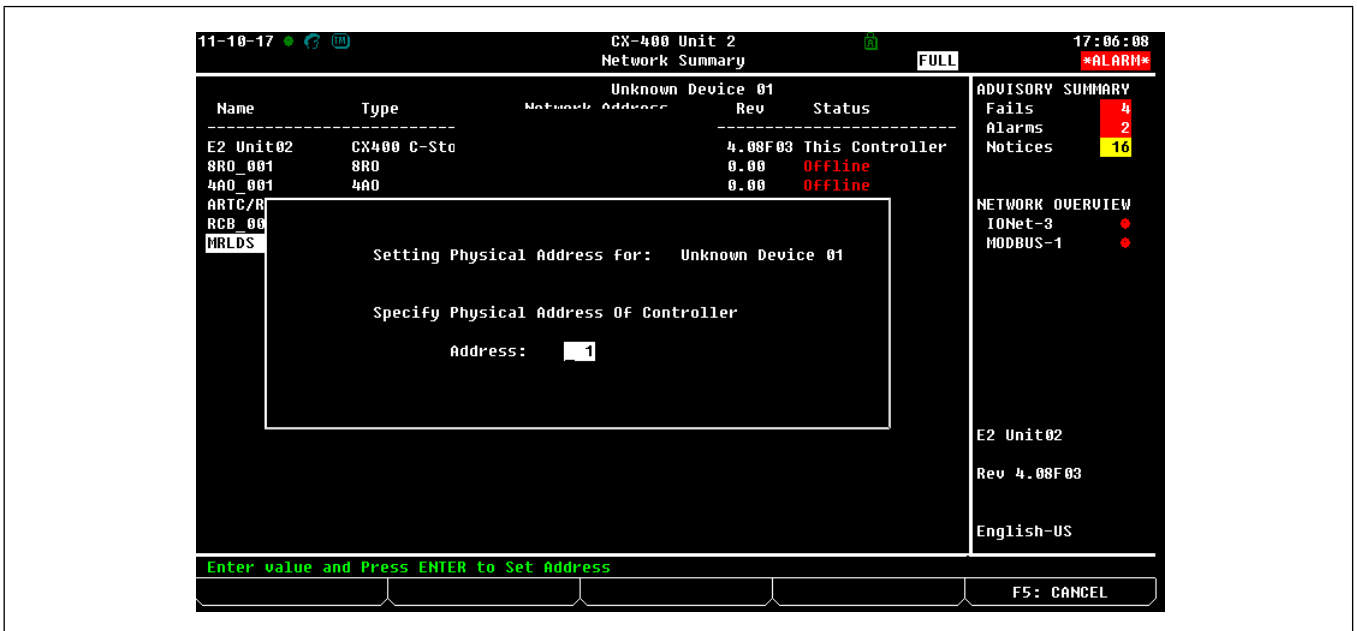
5. A window will appear. Press [Enter] to continue.

Figure 12 - Set the Physical Address for the MRLDS-550

6. Press the [key] key to save the assigned address.

7. Press the [home] key to return to the **Home** screen and press [Menu] then [7], [7], and [1] to enter the **Network Summary** screen again.

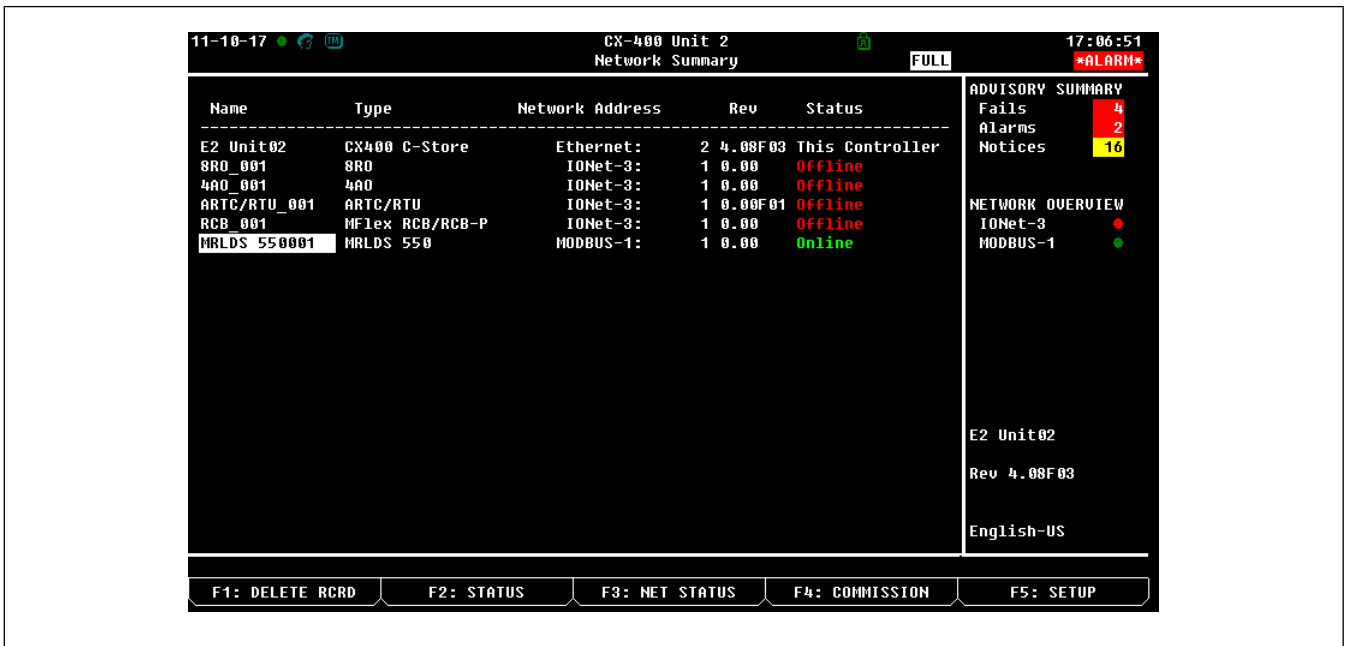8. After a few seconds, the MRLDS-550 should appear **Online**.

Figure 13 - MRLDS-550 Online

Viewing the Status

Press **Menu** then **5**, **4**, **0**, and **0** (this is equivalent to pressing **Menu** then **5; 400**) or use the cursor to navigate to **MRLDS 550** and press **Enter**.
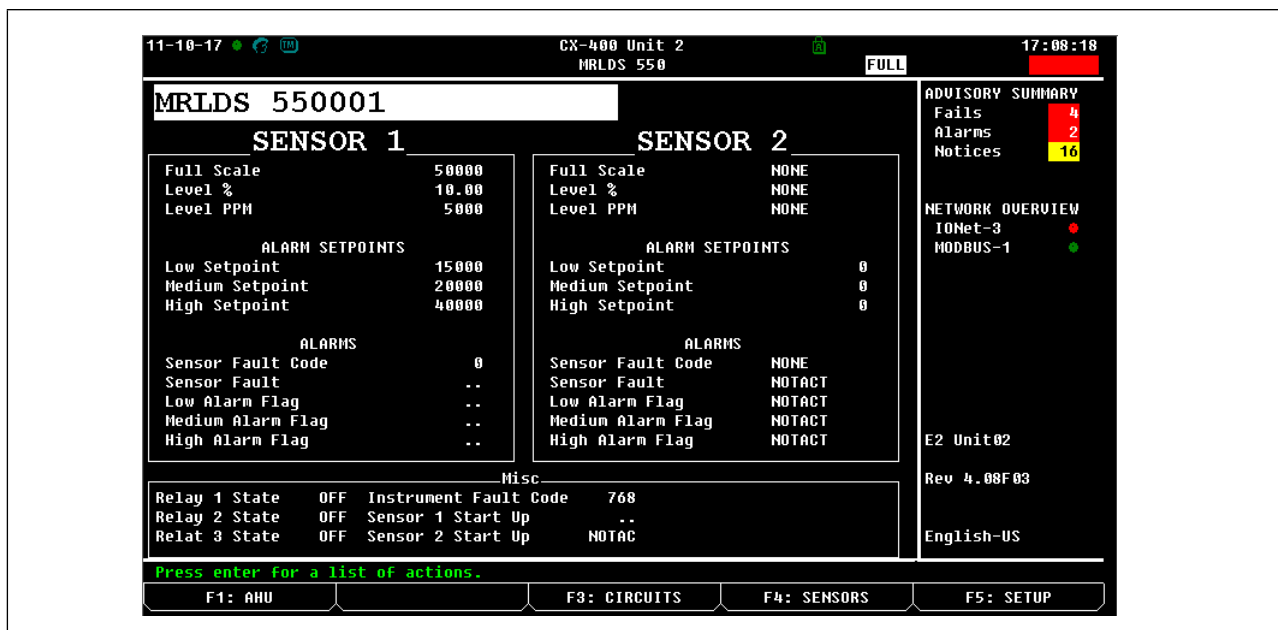

Figure 14 - View Status Screen

For a copy of the 550 User Manual, click:

https://www.mybacharach.com/wp-content/uploads/pdf/MGS-550/MGS-550%20User%20Manual.pdf

Or visit the manufacturer's page:

https://www.mybacharach.com/product-view/mgs-550/

Visit our website at **copeland.com/en-us/products/controls-monitoring-systems** for the latest technical documentation and updates.

For Technical Support call **833-409-7505** or email **ColdChain.TechnicalServices@Copeland.com**

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