E2 Setup with EM21 v72D Energy Meter Device for 527-0436

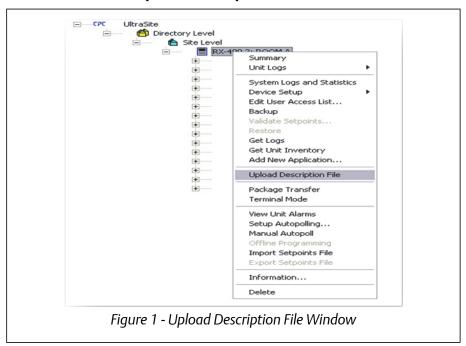
Quick Start Guide

This document contains information setting up, programming and commissioning the EM21 v72D Energy Meter Device in the E2 Controller.

STEP 1: Upload the Description File to the E2 Controller

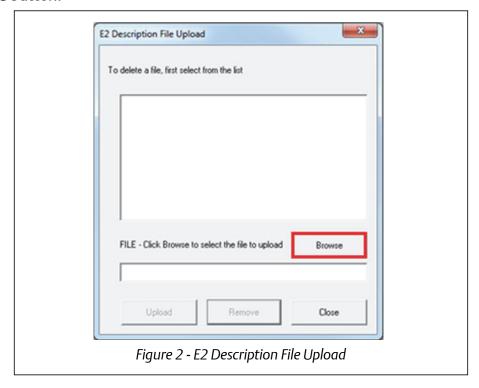
Note: UltraSite32 Software should be installed before uploading the description file.

- 1. Connect to your E2 using UltraSite (refer to UltraSite32 User's Guide P/N 026-1002).
- 2. Log on to UltraSite, enter "USER" in the **Username** field and "PASS" in the **Password** field.
- 3. Double-click the Directory Level to view the Site Level. (Refer to Figure 1)
- 4. Right-click the Site Level and click **Connect**.
- 5. Double-click the Site Level and browse the E2 Unit location where EM21 v72D will be installed.
- 6. Right-click on the unit and select **Upload Description File**.

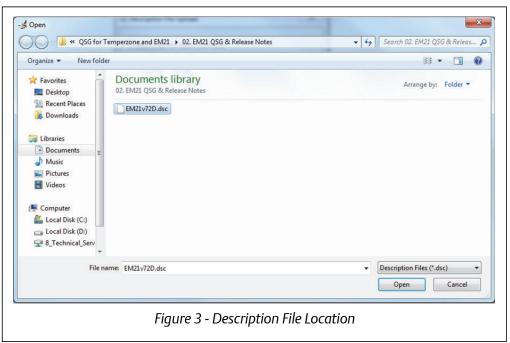




7. Click **Browse** button.

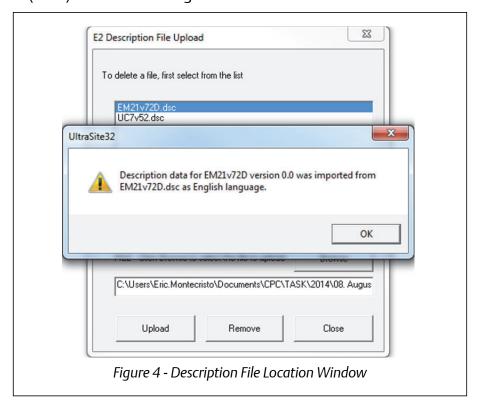


8. Browse to the location where the description file of EM21 v72D is saved.



- 9. Click Open.
- 10. Click **Upload**. A window will appear confirming that the description file was imported click **OK** button.

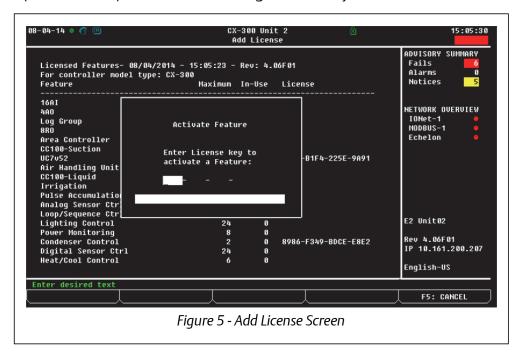
11. The description (*dsc) file location will generate inside the browse location box.



12. Once the upload is complete, reboot the E2 controller.

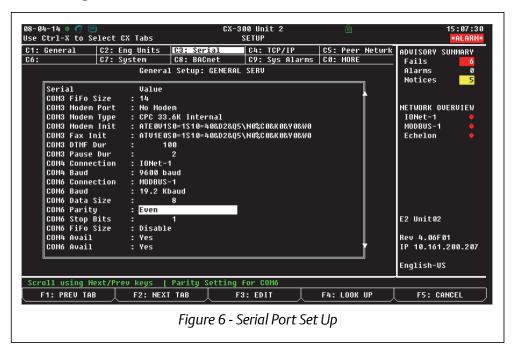
STEP 2: Licensing the EM21 v72D Device

- 1. Log into the E2 controller. Press , ‡, [9] (Licensing).
- 2. Press F1 (ADD FEATURE) and enter the 16-digit license key. Press .



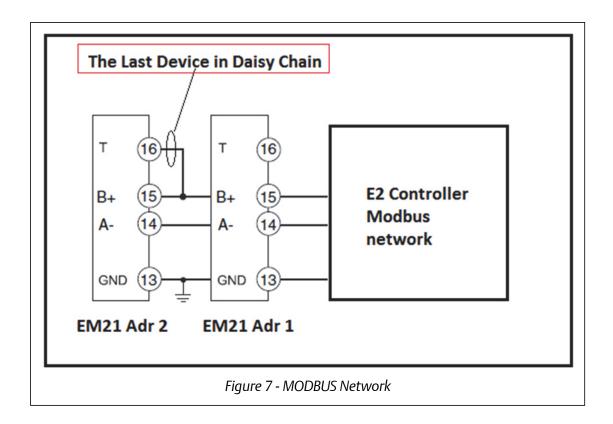
STEP 3: Setting Up the Device in the E2 Serial Port

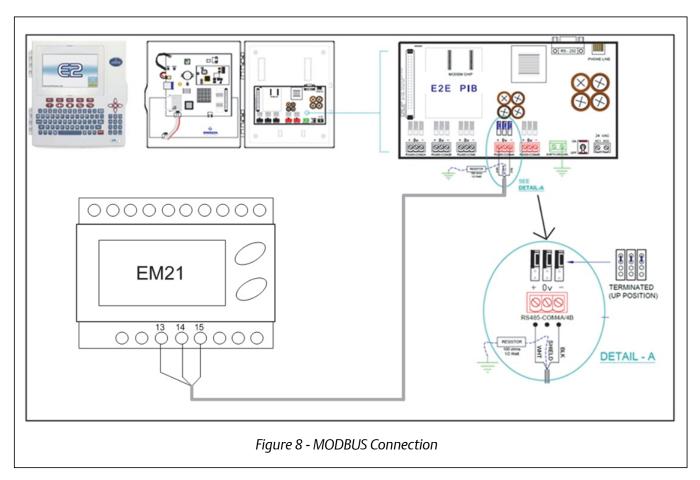
- 1. Log on to E2 controller by pressing Log Infout.
- 2. Enter USER in the **Username** field and PASS in the **Password** field.
- 3. Press , [‡], , [‡] (General Controller Info).
- 4. Select F2 twice to go to the C3: Serial tab.



- 5. Press the down arrow key to highlight **COM6 Connection** value:
 - a. Press F4 (LOOK UP) and select MODBUS-1 (if MODBUS-1 is being used, select MODBUS-2 or MODBUS-3 connection).
 - b. Press to set configuration.
 - c. Set **MODBUS Connection** as follows: (Press to select options and to set configuration).
 - COM6 Baud: 19200
 COM6 Data Size: 8
 COM6 Parity: Even
 COM6 Stop Bits: 1
- 6. Press to save changes.
- 7. Press to go back to the *Home* Screen.

STEP 4: MODBUS Connection

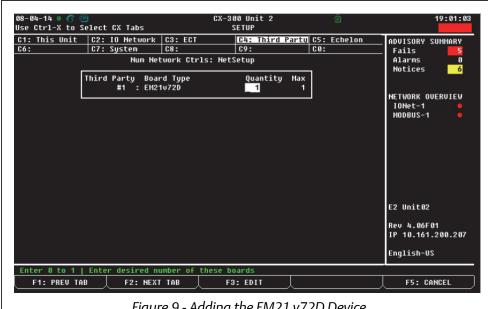




Note: The polarity of the MODBUS connection of E2 controller and EM21 v72D Energy Meter is reversed.

STEP 5: Adding the EM21 v72D Device on the E2 Controller

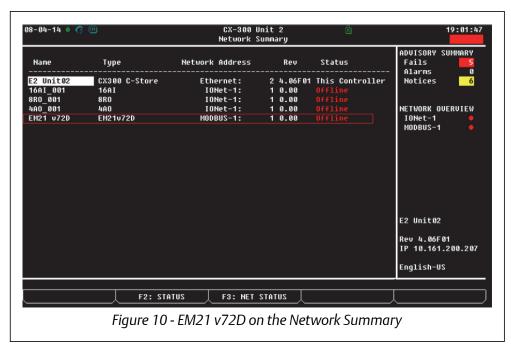
- 1. Press , , , , (Connected I/O Boards and Controllers).
- 2. Press twice to move to the C4: Third Party tab. Highlight the EM21 v72D device and enter the desired number of devices under Quantity.



- Figure 9 Adding the EM21 v72D Device
- 3. Press to save changes.
- 4. Press to go back to the *Home* screen.

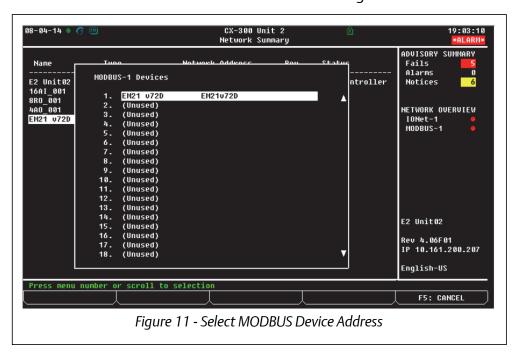
STEP 6: Commissioning the EM21 v72D Device

- 1. Press , †, † to open the Network Summary screen.
- 2. Highlight the **EM21 v72D** device to be commissioned by pressing the down arrow key and press

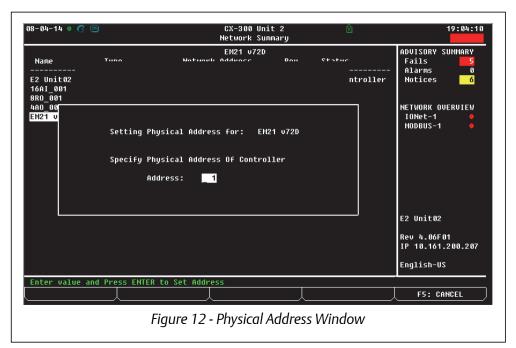


- 3. If a Select Network box appears, select the MODBUS number where you configured the device and press.
- 4. Select the address for the device and press ...

Note: The MODBUS device address must be the same as the address assigned on the device.



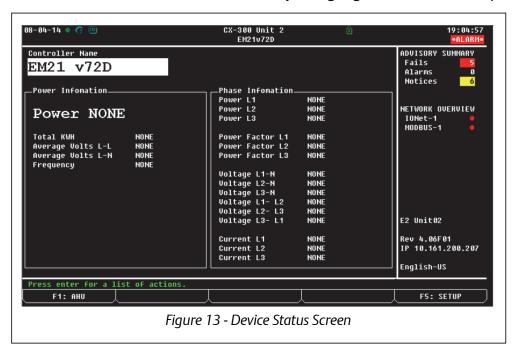
5. A window for setting the physical address appears. Press to continue.



- 6. Press to save the assigned address.
- 7. Press button to return to the *Home* Screen.
- 8. Press , †, †, to open the Network Summary screen.
- 9. Wait for a few seconds then the EM21 v72D should appear online.

STEP 7: Viewing the Status

1. Press , , , , , , or use the down arrow key to highlight EM21 v72D and press .



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