

# E2 Setup with the High Pressure CO2 Controller for 527-0396

## Quick Start Guide

This document will guide you through setting up and commissioning the High Pressure CO2 controller (P/N 818-9010) in the E2 controller.

### STEP 1: Wiring and Setting the Address of the High Pressure CO2

1. When wiring the RS485 polarity from E2 to the High Pressure CO2 controller:
  - Verify that the (+) RS485 side of the High Pressure CO2 line is connected to the (-) side of E2 RS485.
  - The (-) RS485 side of the High Pressure CO2 line must be connected to the (+) side of the E2 RS485.
2. To set the address on the High Pressure CO2, press the **T1**, **T3**, and **T8** buttons on the *Main Menu* screen to enter the *Configuration* screen on the Visograph.

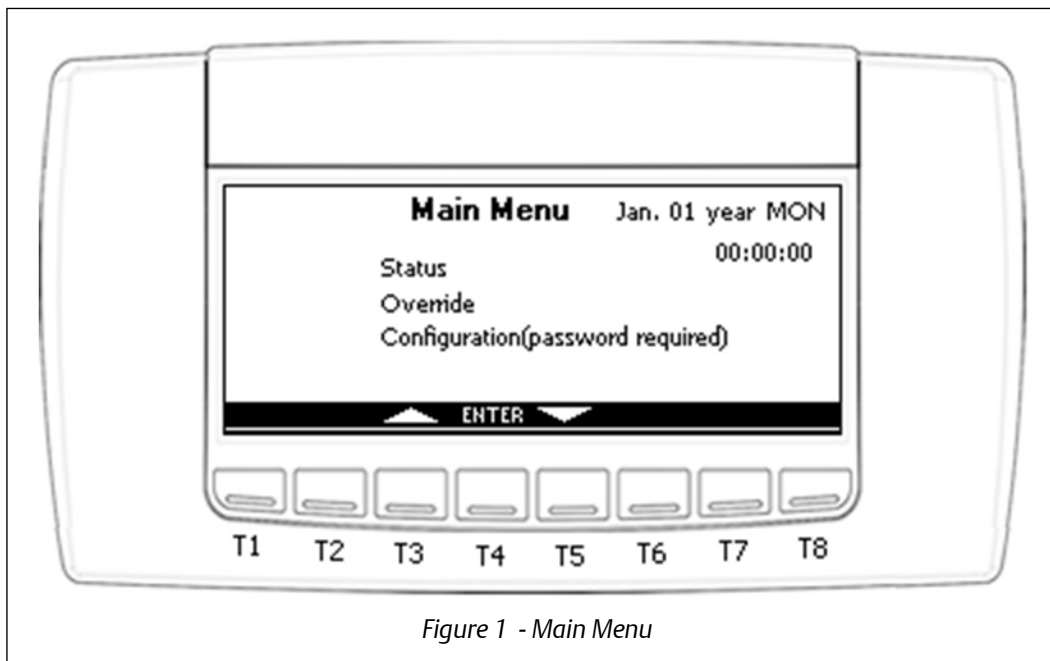


Figure 1 - Main Menu

3. After entering the *Configuration* screen, the screen below appears.

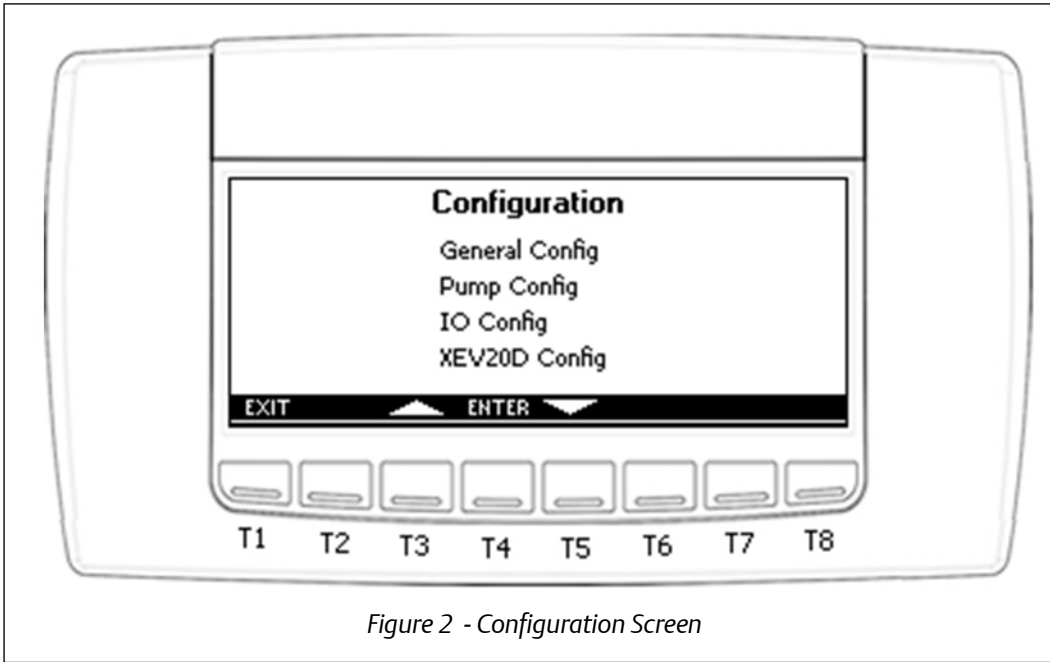


Figure 2 - Configuration Screen

4. Highlight **General Config** and press **T4 (ENTER)**.

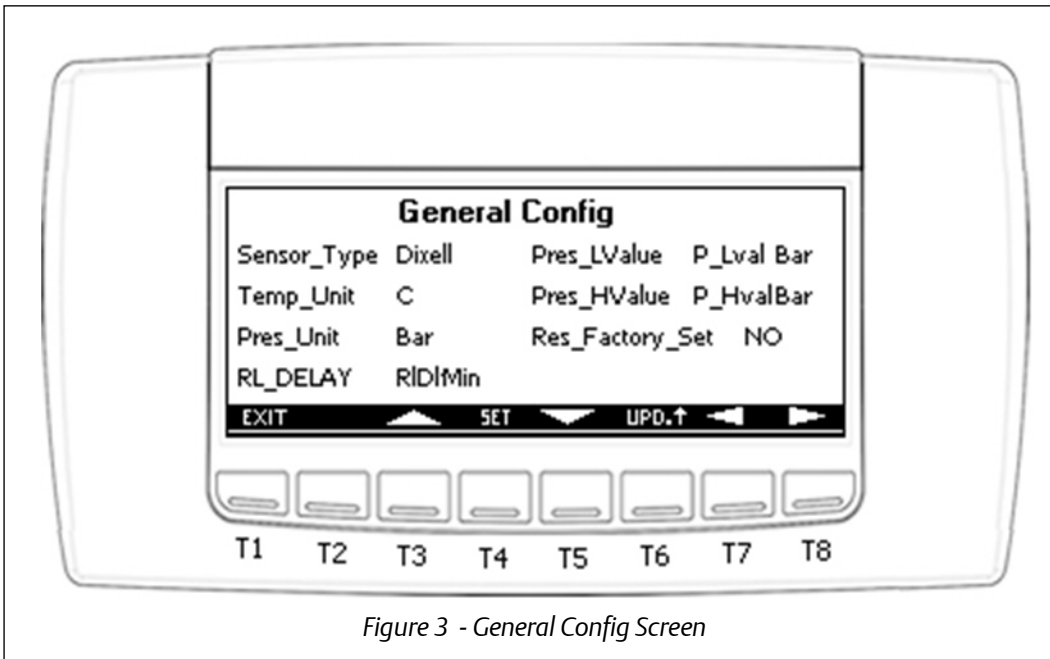


Figure 3 - General Config Screen

5. After pressing **T4 (ENTER)** the screen below appears. Press **T8** (right arrow) to move to the next screen.

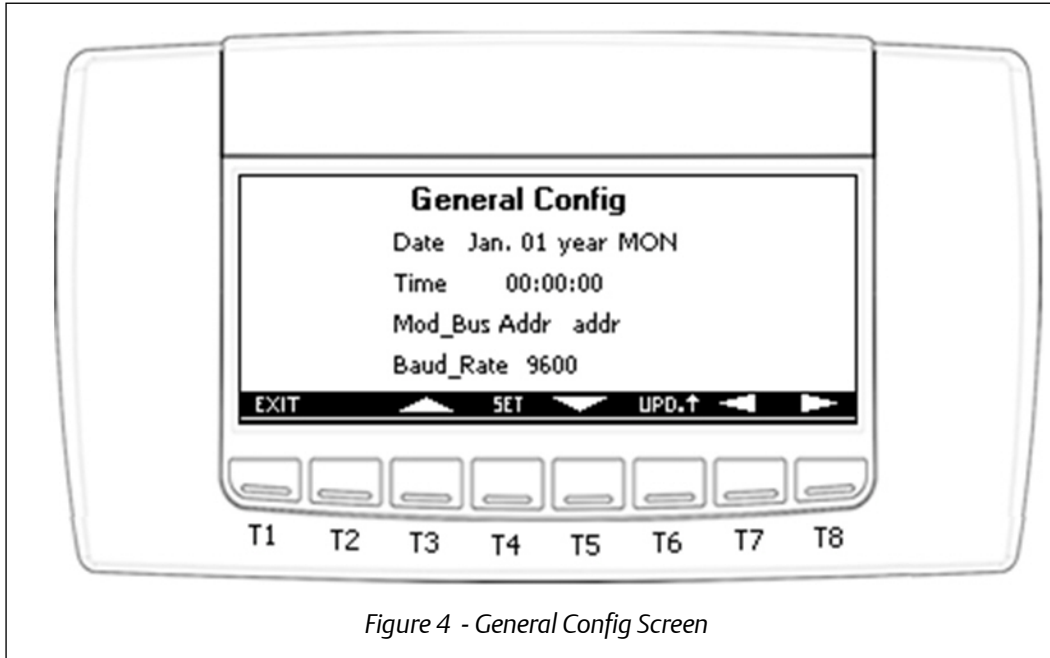


Figure 4 - General Config Screen

6. Verify if the address is defaulted at 1. If you need to change the default address, press **T5** (down arrow) and highlight the MODBUS address number. Once the address number is highlighted, press **T4 (SET)**, and the number should blink. Press **T3** to increase the address number or **T4** to decrease the address number. After the address number is selected, press **T4 (SET)** to exit, then press **T1 (EXIT)** twice to exit the Configuration mode. If the address is changed, the High Pressure CO2 needs a manual reboot for the new address to take place.

## STEP 2: Uploading the Description File to the E2 Controller

1. From UltraSite, connect to your E2 controller (description file # 527-0396).
2. Right-click on the E2 icon and select **Description File Upload**.
3. Browse to the location of the description file and click **Upload**.
4. Once the upload is complete, reboot the E2 controller.

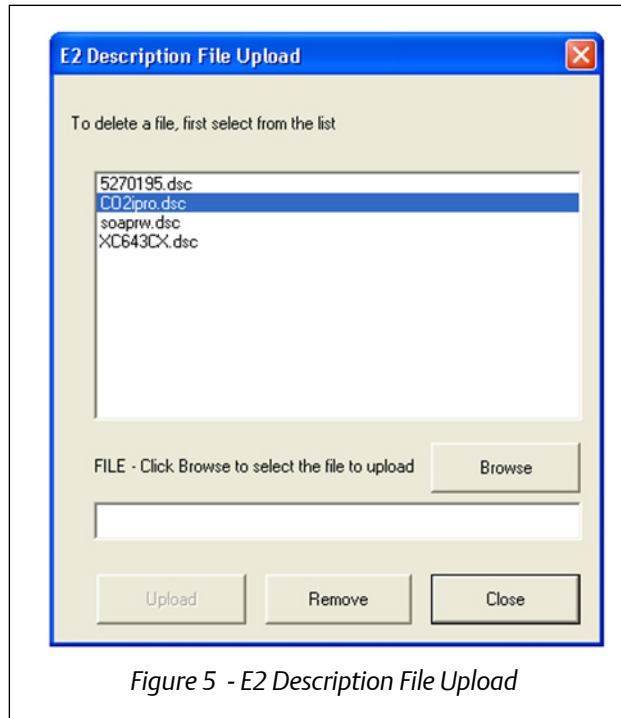


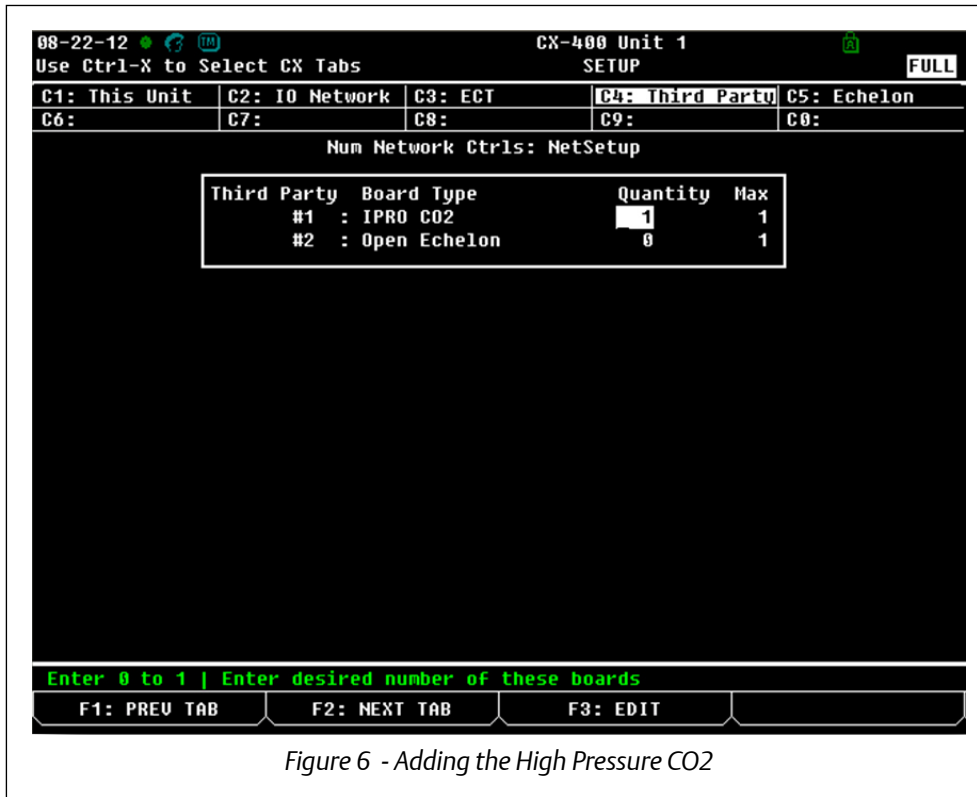


Figure 5 - E2 Description File Upload

## STEP 3: Adding the Device to the E2 Controller

1. Press , **7** (System Configuration), **7** (Network Setup), **2** (Connected I/O Boards & Controllers).
2. Press **F2** (NEXT TAB) to shift over to the C4: Third Party tab. The name of the device will display in the list. Highlight the device name, then enter the number of devices and press  to save changes.



## STEP 4: Assigning the MODBUS Port

1. Press **Menu**, **7** (System Configuration), **4** (Remote Communications), **3** (TCP/IP Setup).
2. Press **F1** (NEXT TAB) to shift over to the C3: Serial tab.

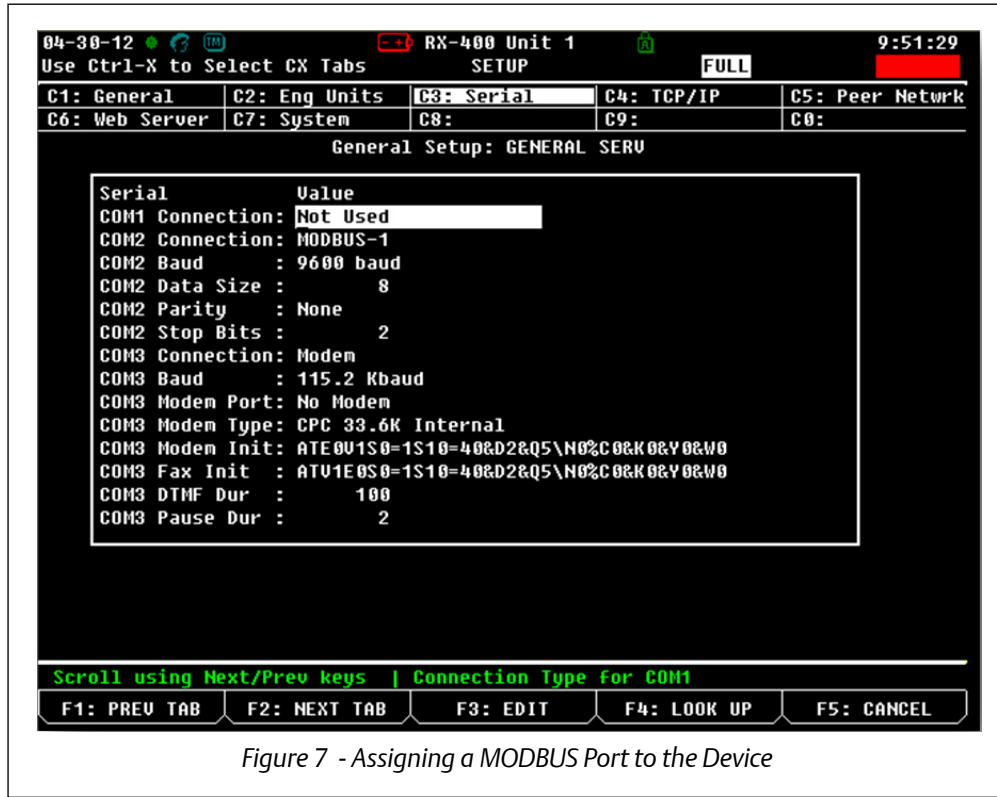


Figure 7 - Assigning a MODBUS Port to the Device

- Select the COM port the device is connected to, press **F4** (*LOOK UP*) and select the appropriate MODBUS selection.

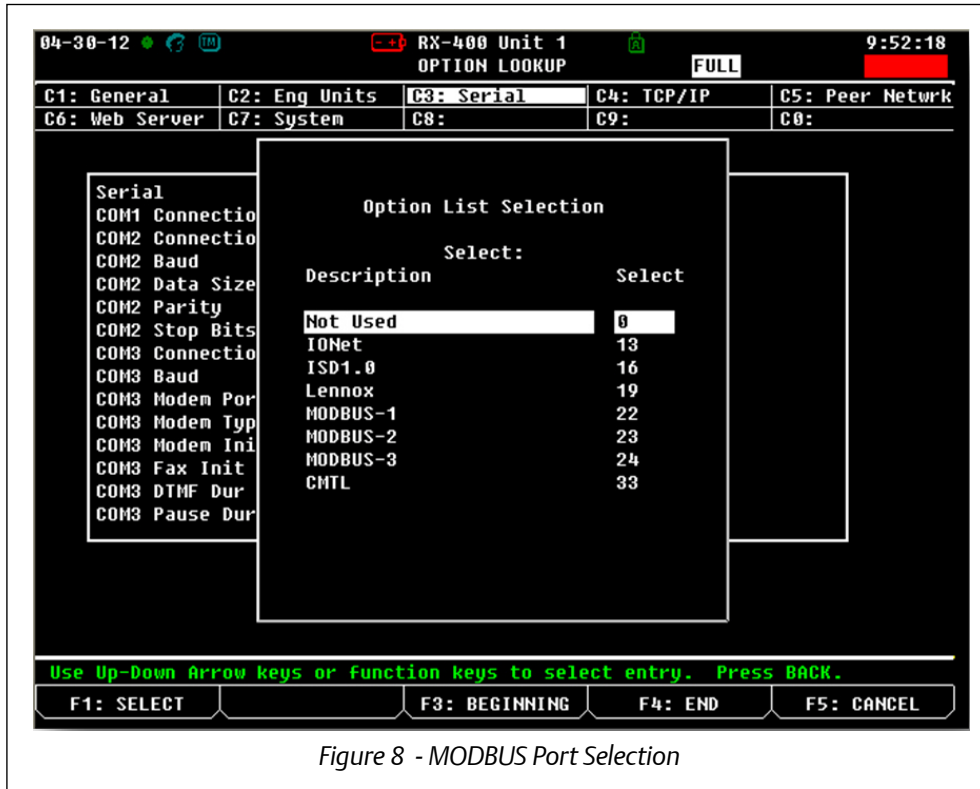


Figure 8 - MODBUS Port Selection

- Set the Baud Rate for the chosen port. Press **F4** to look up the appropriate speed.

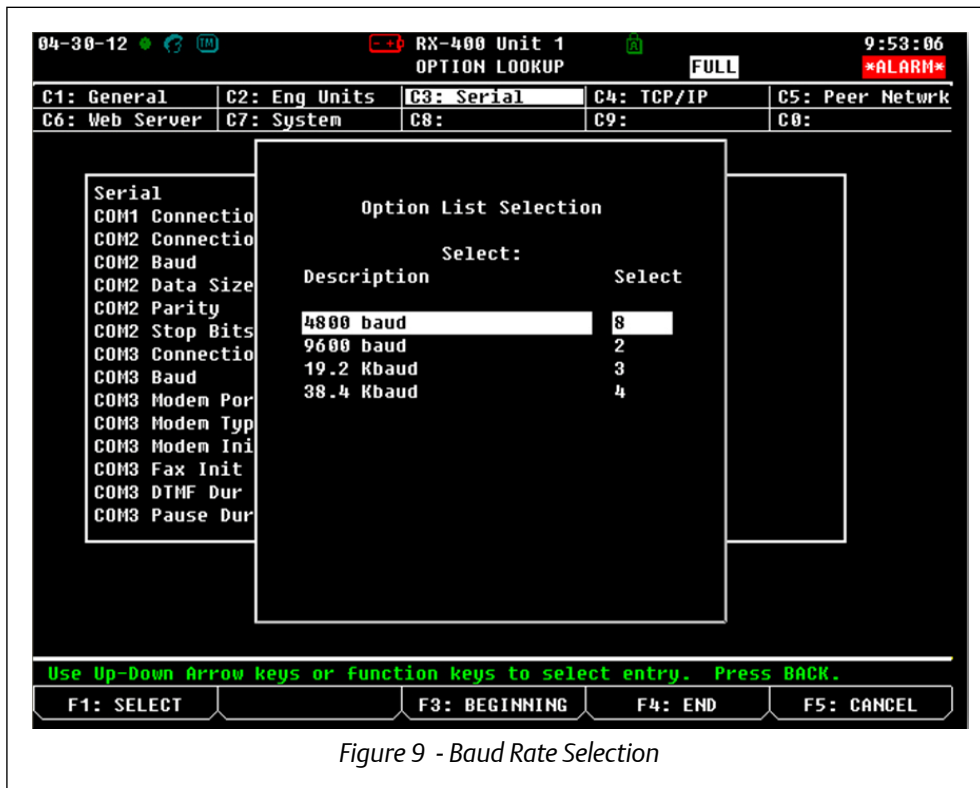


Figure 9 - Baud Rate Selection

## STEP 5: Commissioning the Device into the E2 Controller

1. Press **Menu**, **7** (System Configuration), **7** (Network Setup), **1** (Network Summary).
2. On the *Network Summary* screen, highlight the device name, press **F4** (COMMISSION). Select the preferred MODBUS port where you will assign the device, then assign the MODBUS address of the device.

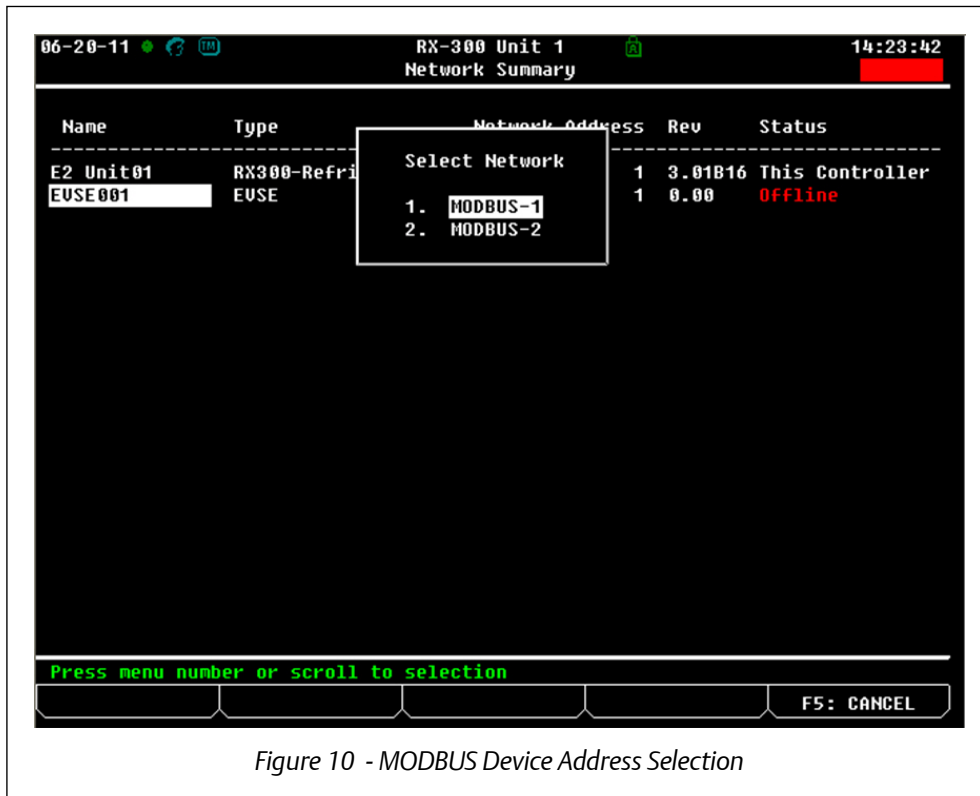


Figure 10 - MODBUS Device Address Selection



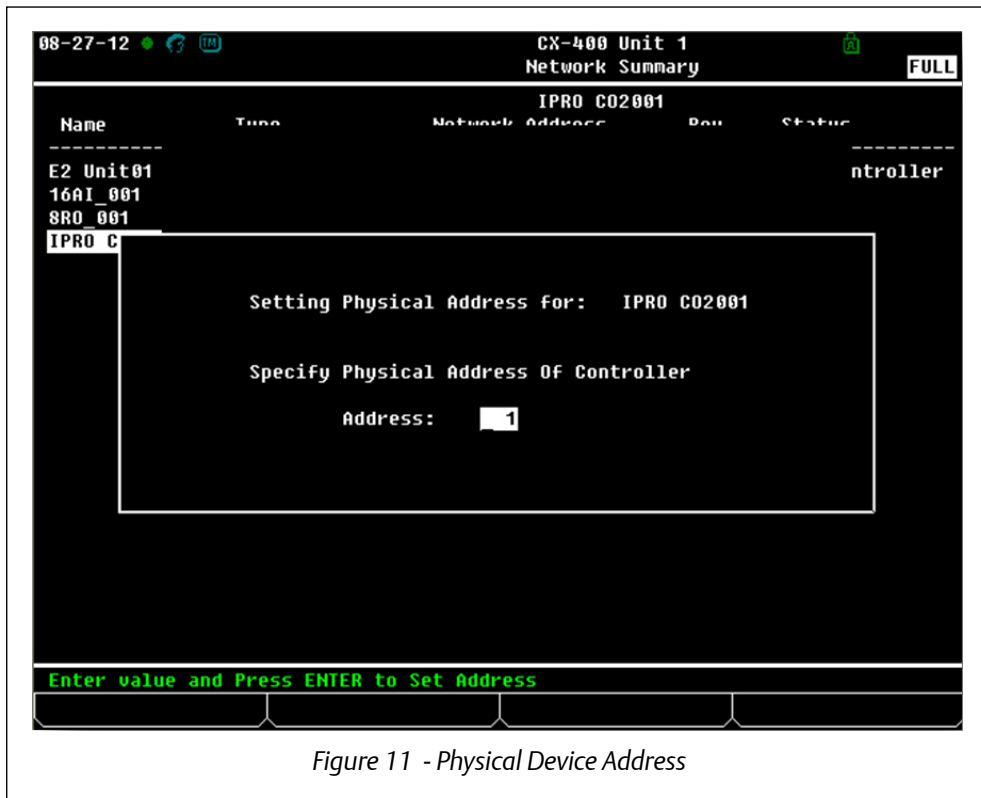


Figure 11 - Physical Device Address

3. Once the device is addressed and wired properly, the device should appear online.