

# E2 Setup with RTD-Net Interface MODBUS Device for 527-0447

## Quick Start Guide

This document will guide you through setting up and commissioning the RTD-Net Interface MODBUS device in the E2 controller.

*Note: Open MODBUS Description files require E2 firmware version 3.01F01 or higher.*

### STEP 1: Upload the Description File to the E2 Controller

1. From UltraSite, connect to your E2 controller.
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. After uploading, reboot the E2 controller. (The button labeled “RESET” on the main board resets the controller. Pressing and holding this button for one second will cause the E2 to reset and retain all programmed applications, logs, and other data stored in memory.) For more information on rebooting the E2, refer to the *E2 User Manual P/N 026-1614*.

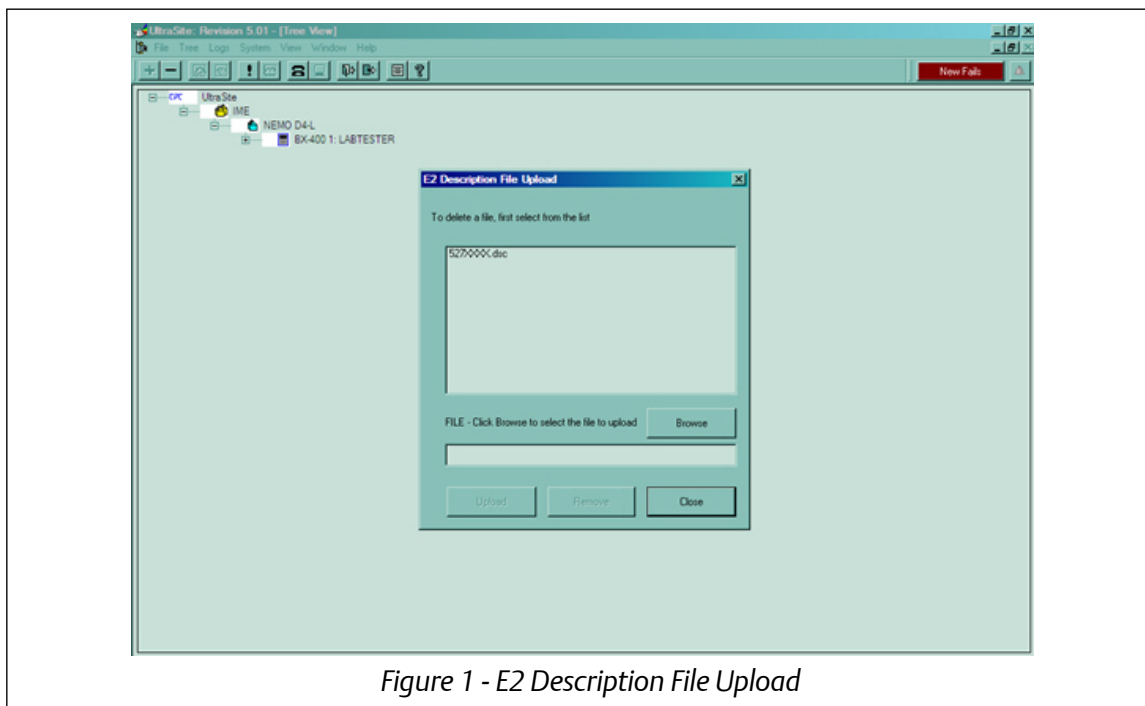



Figure 1 - E2 Description File Upload

## STEP 2: Activate the License of the Device

1. From the E2 front panel (or via Terminal Mode), press , **7** (System Configuration), and **9** (Licensing).
2. Press **F1** (ADD FEATURE) and enter your license key.

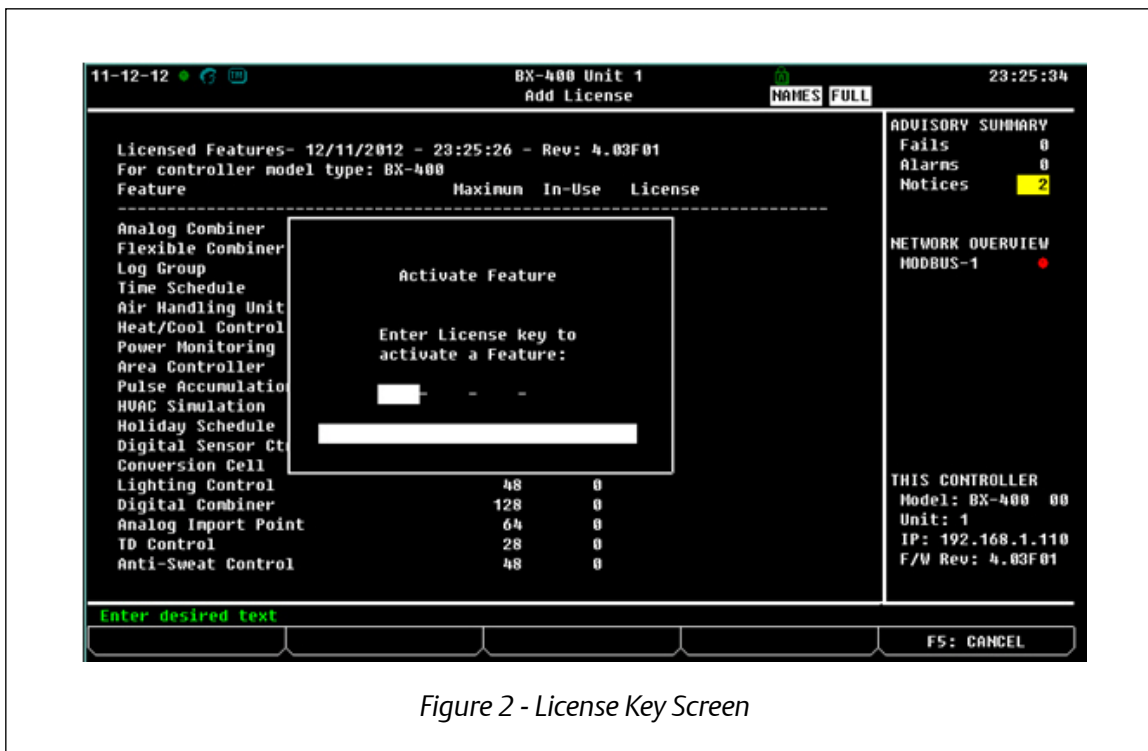





Figure 2 - License Key Screen

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

1. Press , **7** (System Configuration), **7** (Network Setup), **2** (Connected I/O Boards and Controllers).
2. Press **F2** (NEXT TAB) to go to the C4: Third Party tab. The name of the device should be displayed in the list. Enter the number of devices to add and press  to save changes.

## STEP 4: Assign a MODBUS Port

1. Press , **7** (System Configuration), **4** (Remote Communications), **3** (TCP/IP Setup).
2. Select the COM port the device is connected to, press **F4** (LOOK UP) and select the appropriate MODBUS selection.

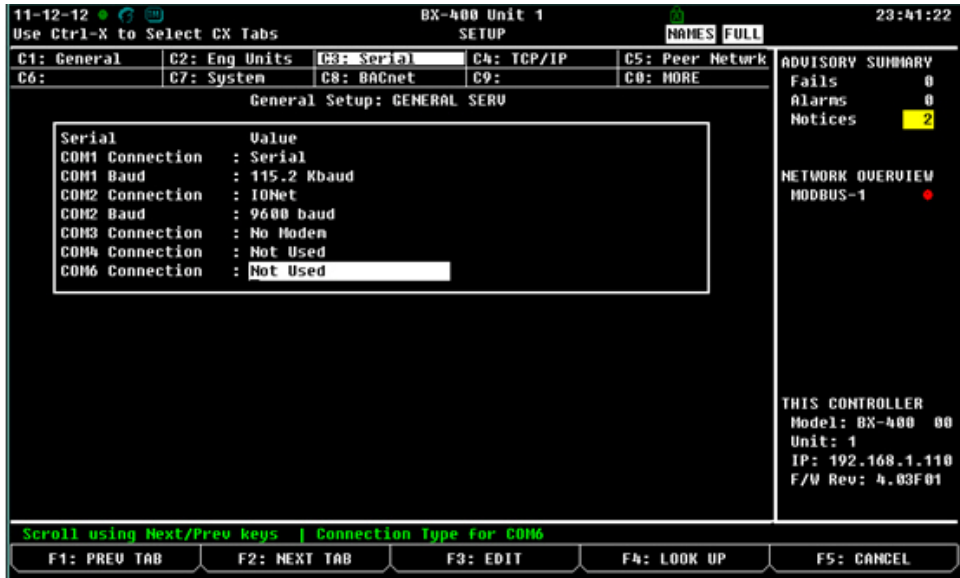


Figure 3 - COM Port Selection

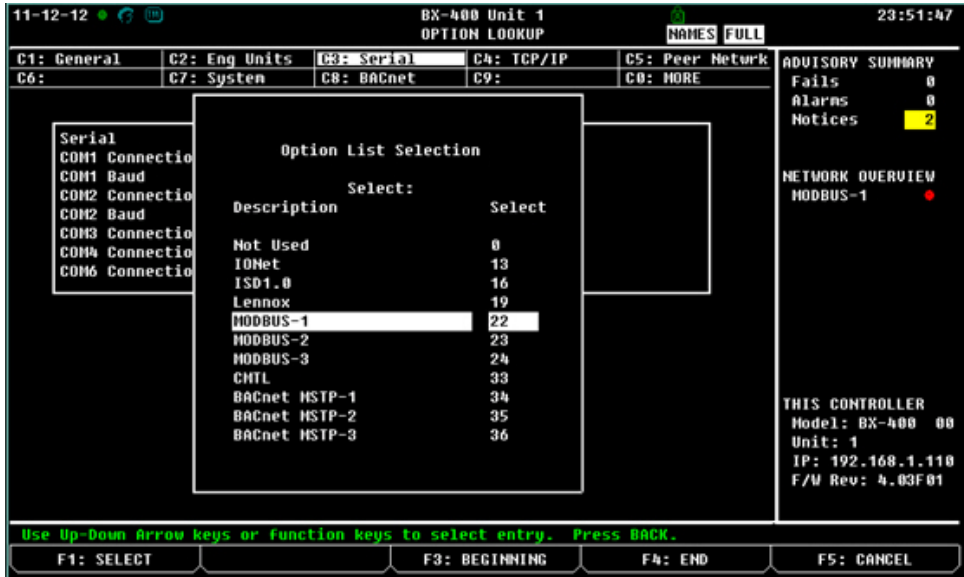


Figure 4 - MODBUS Port Setup

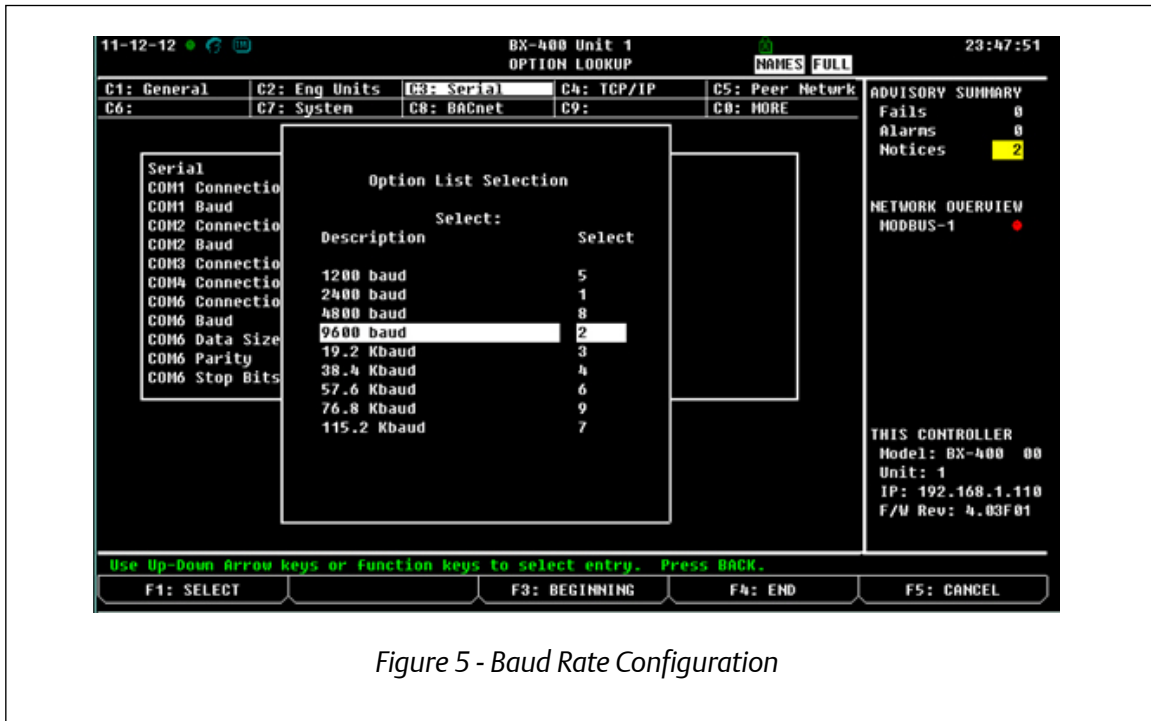


Figure 5 - Baud Rate Configuration

3. Set **Data Size, Parity, and Stop Bits**. Press **F4** (LOOK UP) to select the appropriate values.

*Note: RTD-Net has a factory standard setting of 9600, 8, N, 1. The MODBUS Address range 0 to 63 is set using SW1. For more information, refer to the manufacturer's installation instructions.*

## STEP 5: Commission the Device onto the E2 Controller

1. Press **Menu**, **&7** (System Configuration), **&7** (Network Setup), **1** (Network Summary).
2. Highlight the device and press **F4** (COMMISSION). Select the MODBUS port where you will assign the device, then select the MODBUS device address.

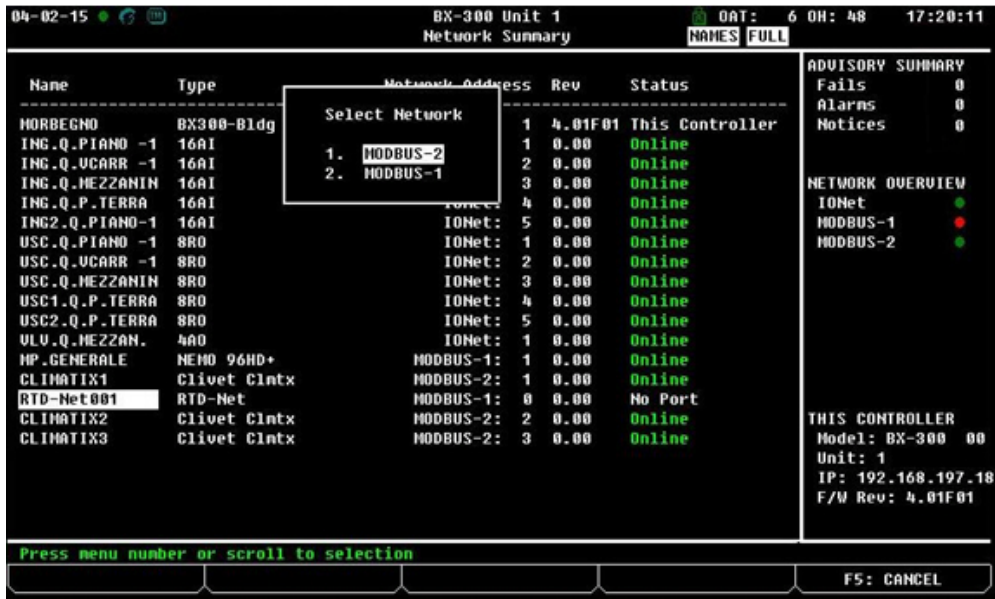


Figure 6 - Device Commissioning



Figure 7 - MODBUS Device Address Selection

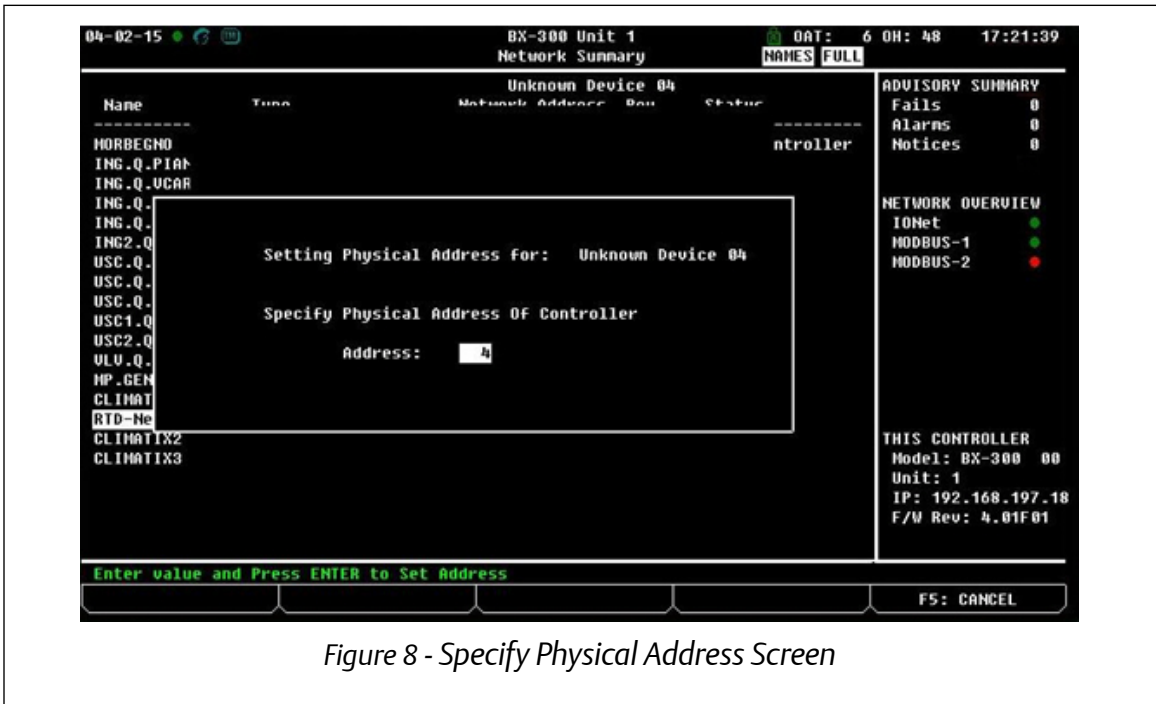


Figure 8 - Specify Physical Address Screen

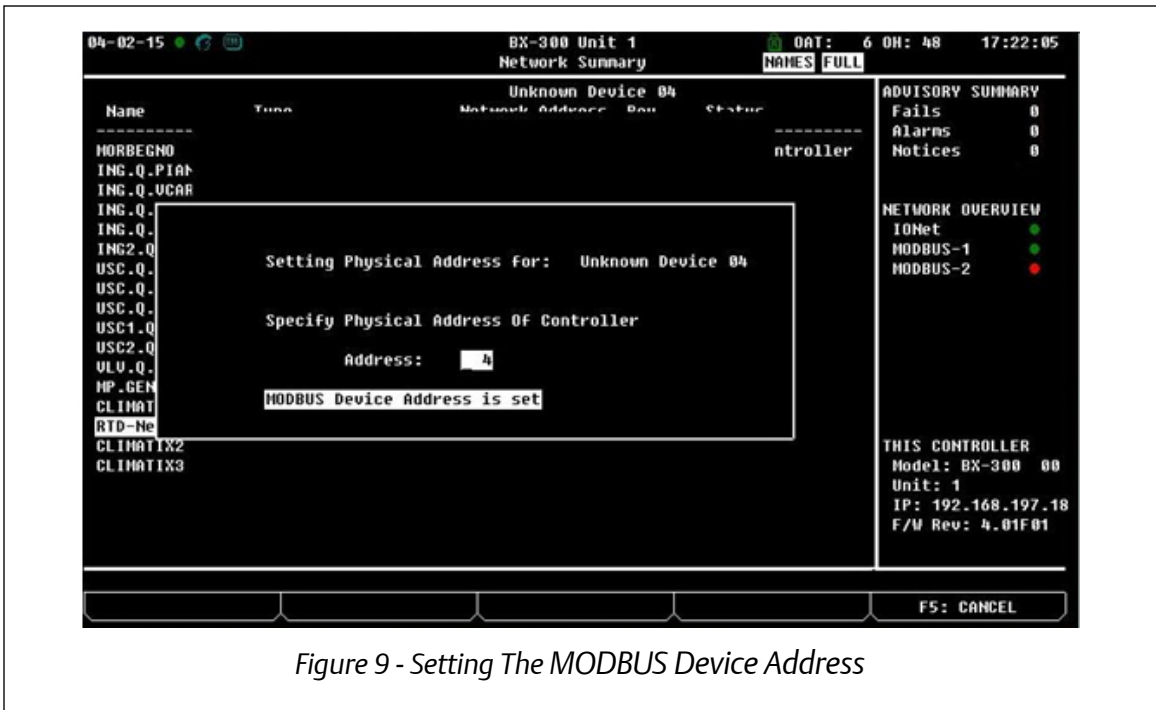


Figure 9 - Setting The MODBUS Device Address

# STEP 6: After Assigning the MODBUS Address of the Device and Verifying that the Connections are Wired Properly, the Device Should Appear Online

Make sure that the polarity is reversed on the E2 Controller.

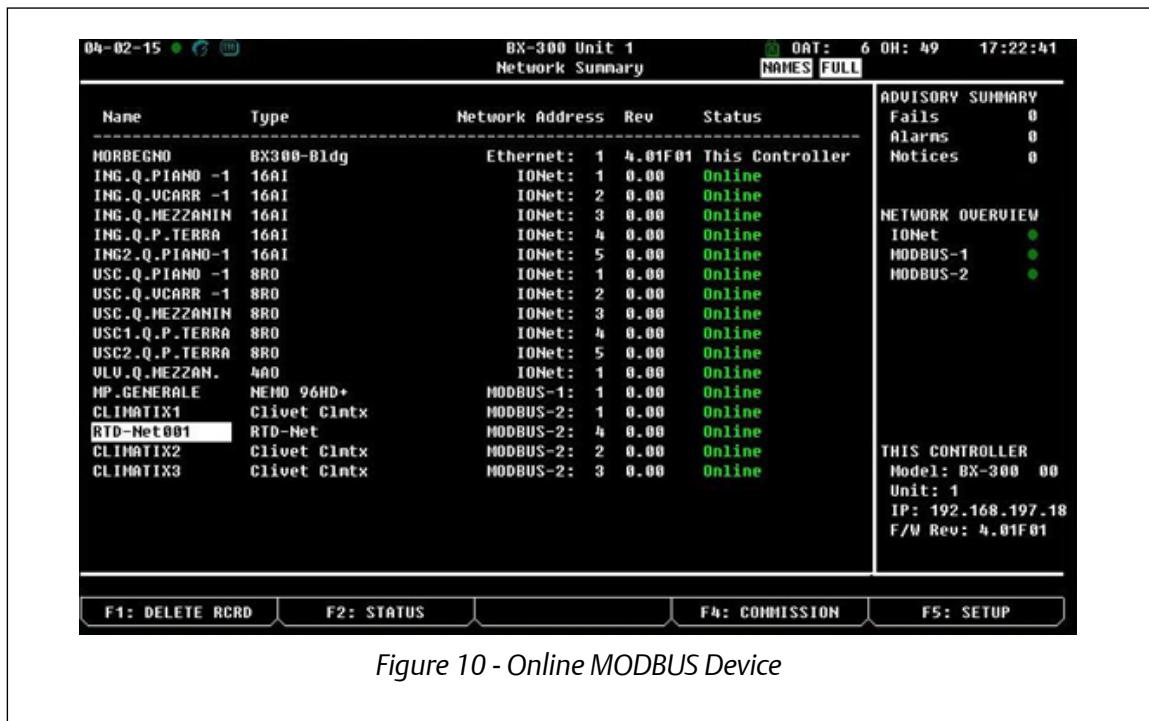


Figure 10 - Online MODBUS Device

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