Petro Vend Serial RS232 to Ethernet Converter Procedure Guide

Part Number: - FMM1709-232

Revision: - 0.1

Serial RS232 to Ethernet Converter

FMM1709-232

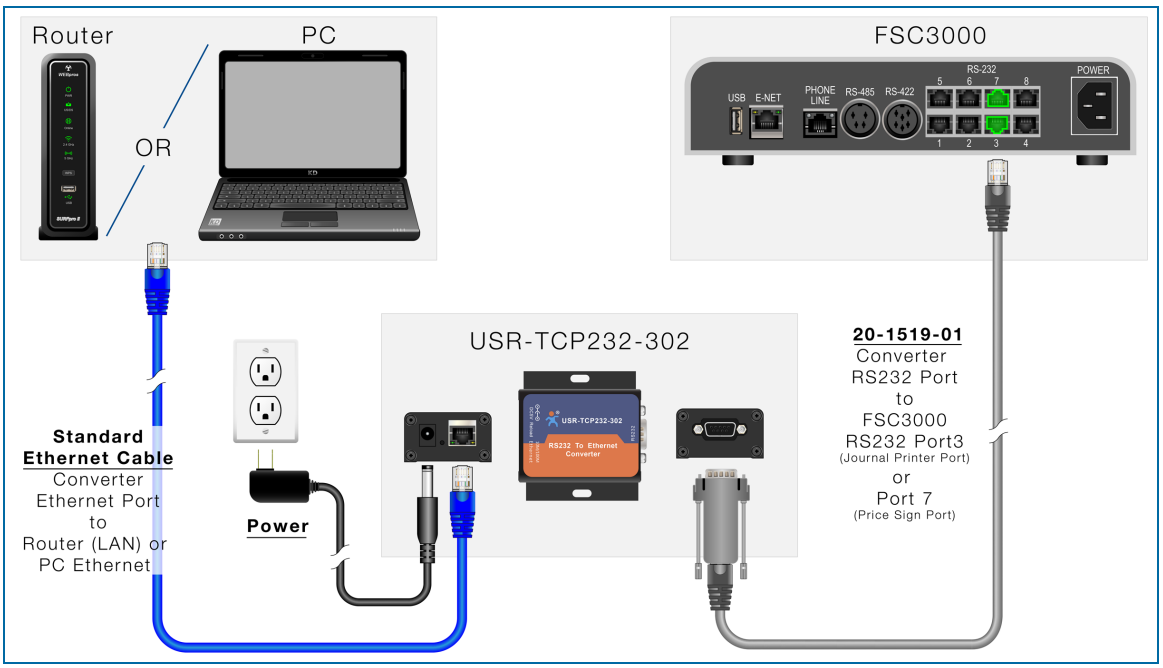
Serial RS232 to Ethernet Converter Setup

This instruction is applicable to FSC3000 units with installed PV384 boards that do not have a dedicated IP socket on the board.

Components

- FM20-4507 TCPIP to RS232 Adapter Kit (supplied)
  - FM75-2086 TCIP to RS232 Adapter (includes power cable)
  - FM20-151901 Cable, RJ45 to DB9M (DTE)
- Standard Ethernet Cable (not supplied)

Hardware Installation



- Use a standard Ethernet cable to connect the USR-TCP232-302 to an Ethernet router. As an alternative, you can connect the Ethernet cable directly to a PC.
- Use a serial cable (only use OPW-FMS part number 20-1519-01) to connect the USR-TCP232-302 Ethernet Converter to one of two available serial ports (Journal Printer port 3 or Price Sign port 7) of the FSC3000.

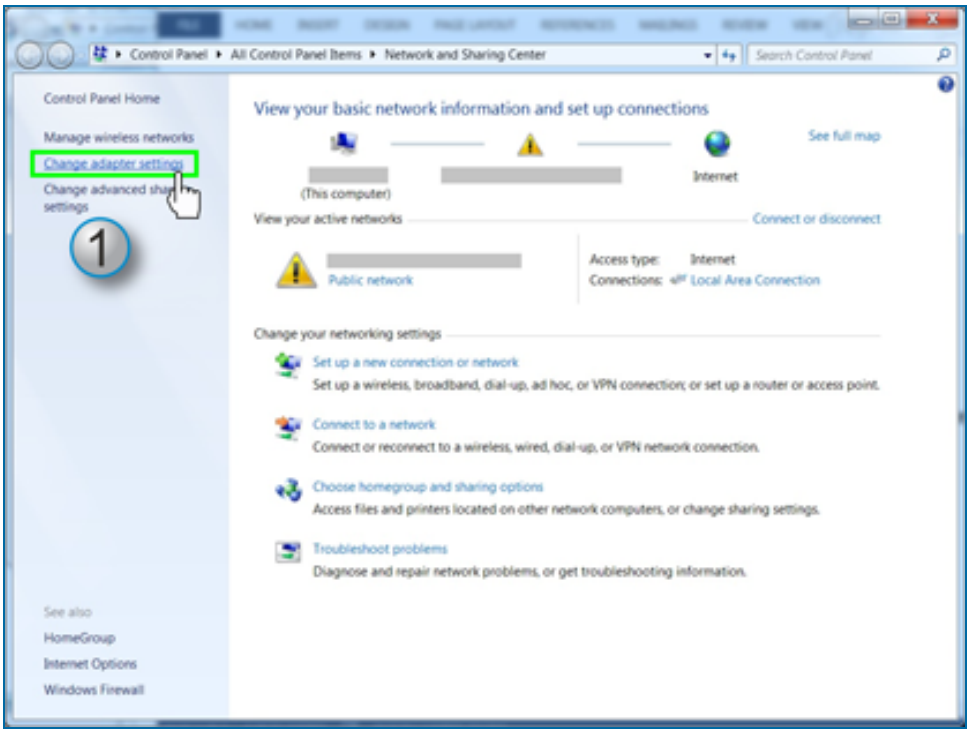
NOTE: See "Reassign the IP Port" below for configuration.

Configure the USR-TCP232-302

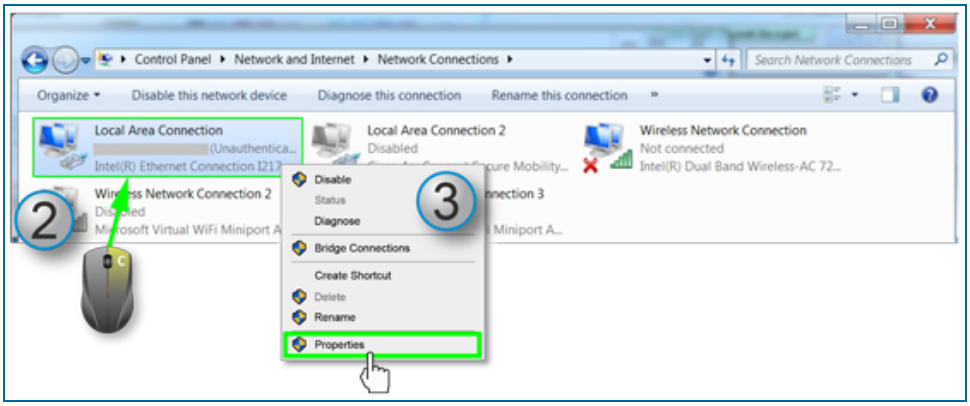
You can use one of two methods to use this device on your LAN:

- You can configure the device for DHCP. Your local DHCP server will give you an IP to use.
- You can configure the device with a Static IP to operate on a required sub-net. The device is configured with a Static IP from the OPW-FMS factory. The steps below show how to get access to the device from a PC through a standard Ethernet cable connection between the PC and the USR-TCP232-302.

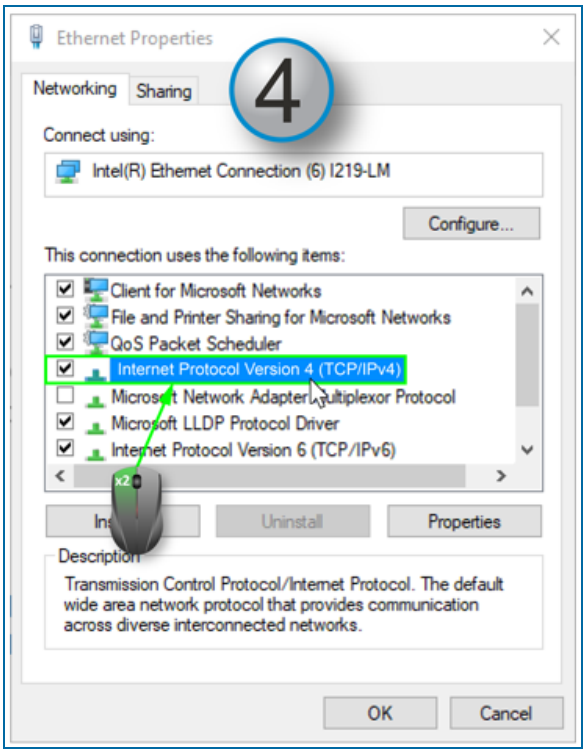
Set the computer's static IP and subnet mask.



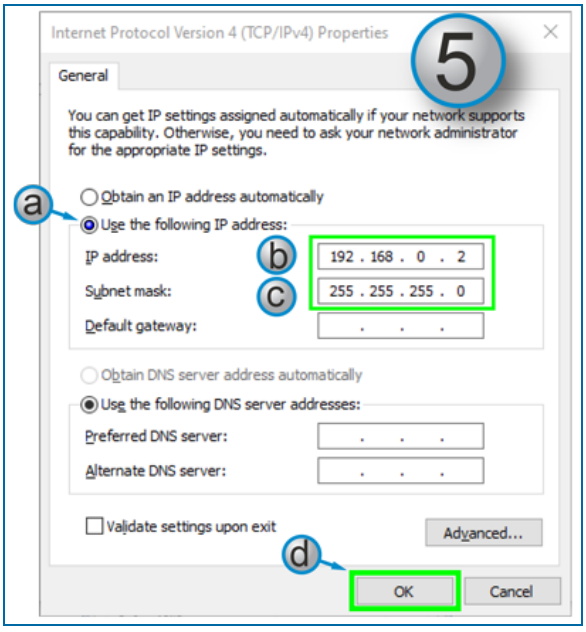
1. On your computer go to Control Panel > All Control Panel Items >Network and Sharing Center. Click **Change Adapter Settings**.



2. Right-click **Local Area Connection**.
3. Select **Properties** from the drop-down menu.



4. Double-click **Internet Protocol Version 4 (TCP/IPv4)**.



5. On the *General* tab that comes into view:
    a. Select the **Use the following IP address** radio button.
    b. In the **IP Address** field, enter: 192.168.0.2
    c. In the **Subnet mask** field, enter: 255.255.255.0
    d. Click the **OK** button.

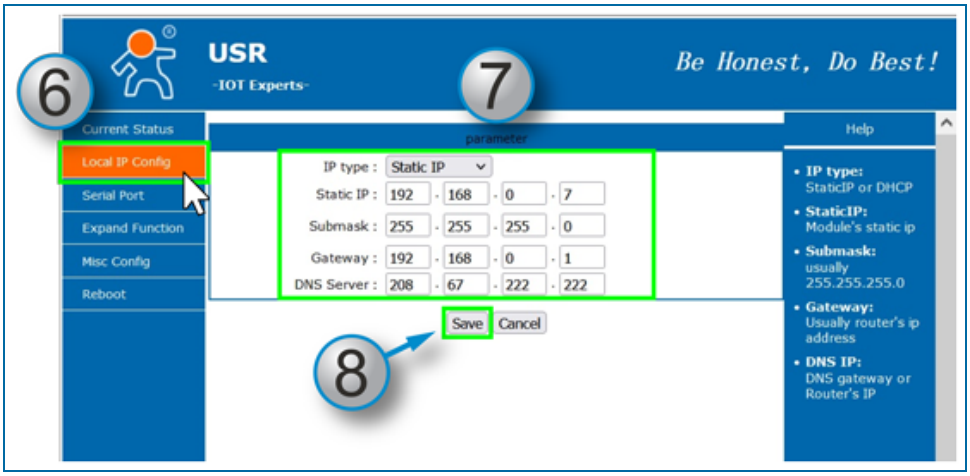
Change the Device IP Configuration

The device's default IP address is 192.168.0.7. Use a browser to connect to http://192.168.0.7.

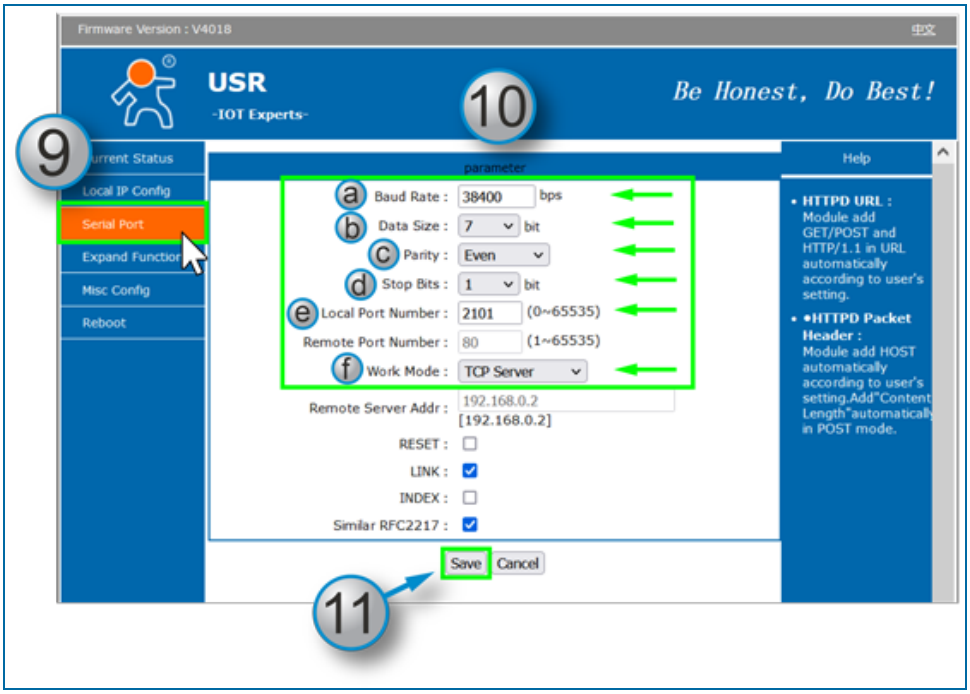
- To connect the device you can use one of two methods:
    - Use an Ethernet cable to connect directly to your PC
    - Connect the device and your pc into the same router (with a sub-net address scheme of 192.168.0.x)
- OPEN your browser and enter "http://192.168.0.7.

NOTE: When you first get access to the device you will be prompted for *user* and *password*. The default values are:

- user: **admin**
- password: **admin**



6. Select the **Local IP Config** tab in the left side menu. It will be necessary to change the default settings as in the image above.
7. After you select the Local IP Config tab, the page will show the IP configuration of the device. Change these settings as necessary so the device can operate on your network.
8. Click **Save**.



9. After you configure the necessary network settings, you can also configure the device's Serial port if necessary. Select the **Serial Port** tab in the left side menu.

> **NOTE:** When this device is shipped from the factory, it's serial port settings are configured as shown and should only be changed if the FSC serial port baud rate has been changed.
>
> The device's local port number has also been configured to agree with what is normally available with older FSC3000 systems.

10. The serial port settings are configured as shown below:
    a. Baud Rate: Enter **38,400**
    b. Data Size: Select **7** from the drop-down
    c. Parity: Select **Even** from the drop-down
    d. Stop Bits: Select **1** from the drop-down
    e. Local Port Number: Enter **2101**
    f. Work Mode: Select **TCP Server** from the drop-down

> **IMPORTANT:** Do Not change the "Work Mode" from **TCP Server**.

11. Click **Save**.

On the next screen that comes up, click **Restart Module**.

Reassign the IP Port

Run the ‘test’ command in the Command Prompt.

Go to the prompt:

`Reassign IP Port to External Port # (Y/N)?`: Type "Y"

Select the Port # to use for the external IP:

- Use Port 3 if you do not have a Journal printer installed
- If you have a Journal printer installed, use Port 7.

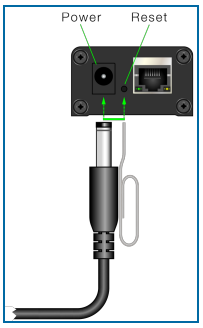
Connect to the USR-TCP232-302 Device with a Terminal Program

You can onnect to the device with HyperTerminal, puTTy, ARTWare or other terminal program.

- Open the terminal program.
- Make sure the port settings are set to:
  - Rate: 38,400
  - Data bits: 7
  - Parity: Even
  - Stop bits: 1
- Set the Host Address to the configured device's IP Address in step 6 & 7 above.
- Set the Port number to 2101.

Factory Reset

If it becomes necessary to reset the USR-TCP232-302device to factory default:



Use a straightened paperclip to push in the **Reset button** and connect the **Power Cable**at the same time. Hold the reset button for a minimum of 5 seconds after you connect the power cable.

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