



MPR-1/2/3/4 SERIES FIRMWARE ROM UPDATE INSTRUCTIONS

March 2018

DESCRIPTIONS

1. This instruction covers MPR-1, MPR-2, MPR-3, MPR-4 series network analyzer devices.
2. The intent of the instruction is to ensure that the up-to-date ROM files of firmware are easily loaded into the PFC relay and analyzers by the end user.
3. Required Hardware for Firmware Update;
 - RS485-USB2 Converter



- USB Cable



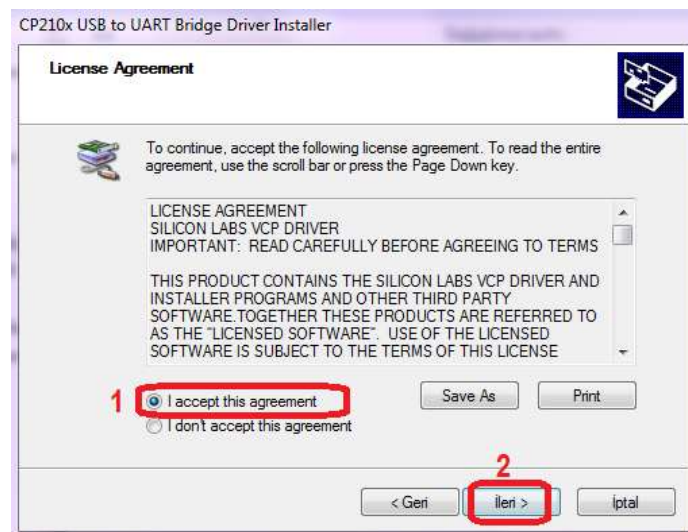
- A cable of thin-section to connect the device to the USB converter



Procedure

1-)Installation of Software:

- Install the driver of the device using the CD that comes out of the box of the RS485-USB2 converter.

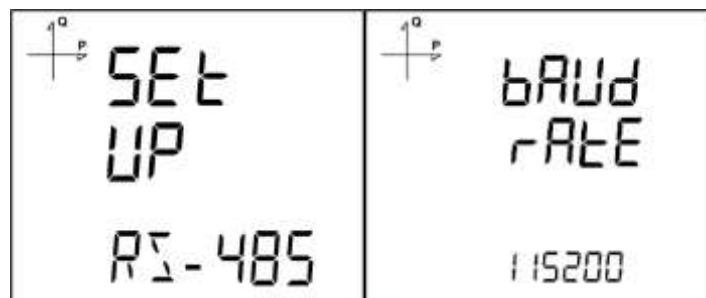


2-) What to Do on the MPR

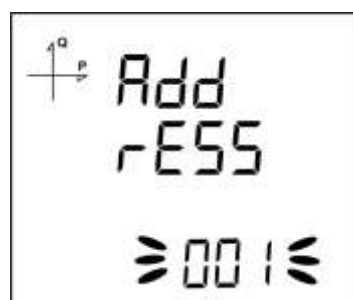
- Press and hold the SET key and enter the Setup screen.



- Enter the RS-485 settings in the Setup screen, configure the bit rate to 115200 bps. If you cannot connect, try other baudrates (9600, 19200, 38400, 57600 ...).



- Configure the address value to 1.



3-) WIRING

- Connect the Data (B) and Data (A) terminals of the USB converter to the Modbus B and A terminals of the unit. Inputs marked “A” must be connected to each other by a separate cable, also inputs marked “B” must be connected to each other by a separate cable.

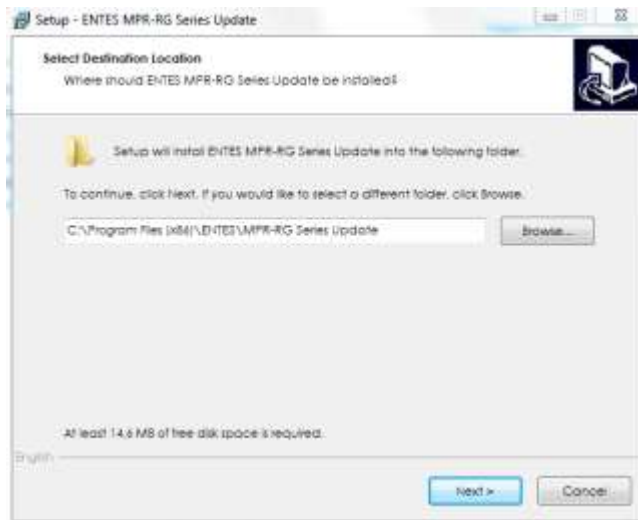
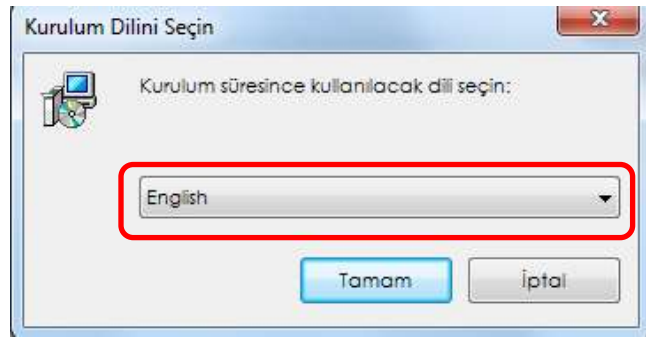
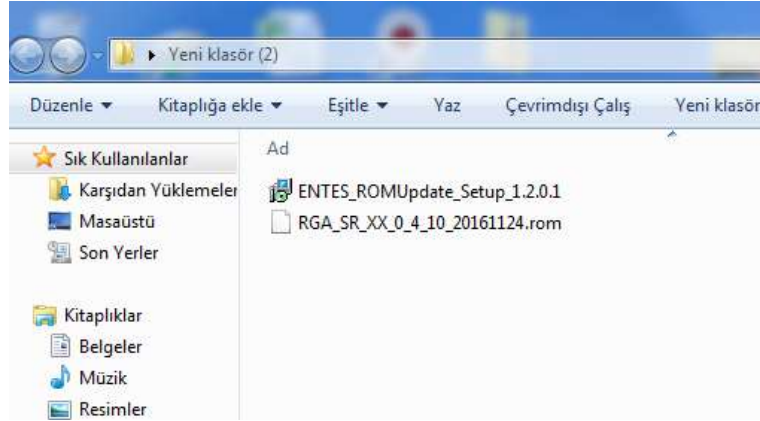


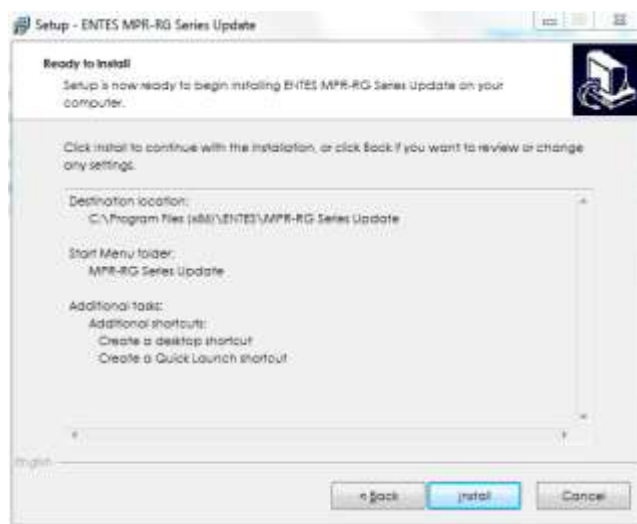
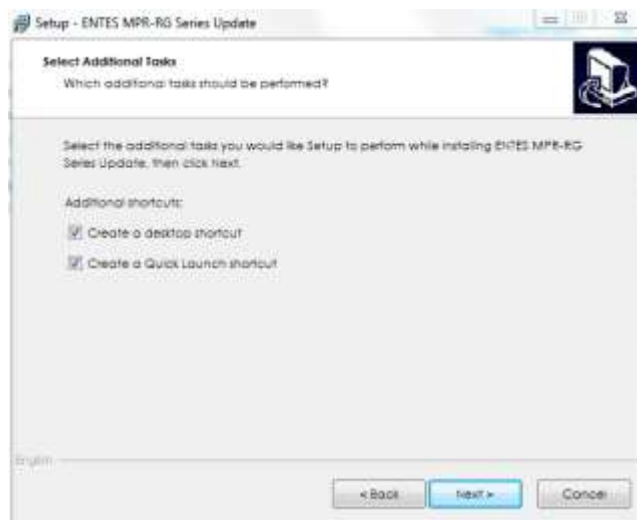
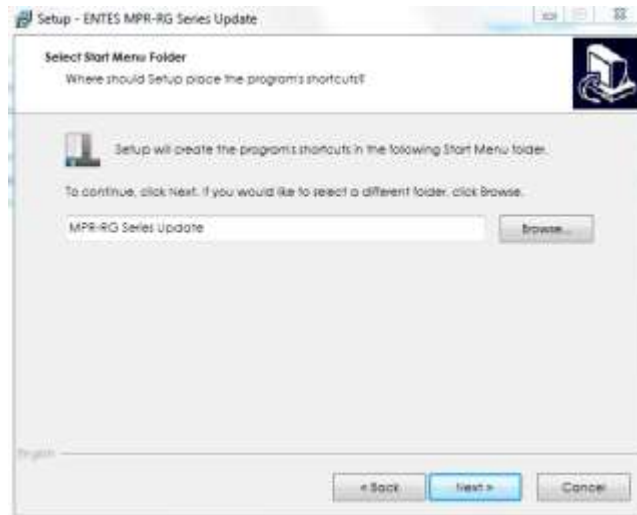
- Connect your computer to the converter with USB cable.



4-) INSTALLING THE UPGRADE PROGRAM

- Extract the downloaded ROM and Update files to an empty folder.
- Install ENTES ROM Update software using “**ENTES_ROMUpdate_Setup_X.X.X.X.exe**” file.

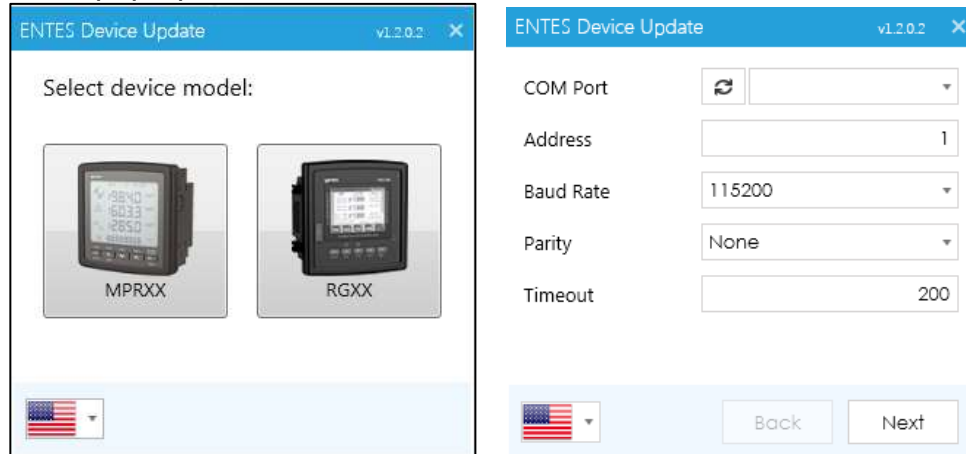




- Double-click on the **MPR-RG Series Update** shortcut that appears on the desktop after installation.



- In the pop-up menu, select MPRXX.



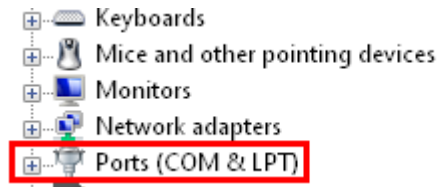
- Right-click on My Computer (or This PC) and click **Manage** to find the COM port value on the opened screen.



- On the **Computer Management** screen, click the **Device Manager** tab.



- The COM number (COM6, COM7, etc.) located next to the **Silicon Labs CP210x USB to UART Bridge** under the Ports (COM & LPT) tab is the COM port you will use in the update program.



- Configure as below;
 - Address : **1**
 - Baud Rate : **115200**,
 - Parity : **Yok**,
Timeout : **200**.

Click **Next**.

Note: If the connection cannot be established, try different values of baudrates (9600; 38400 ...). Make sure that baudrates on MPR and on update program are the same.

- The following screens are displayed when the device is recognized:

- Press the **Select ROM File** button and select the ROM file you downloaded.

You can restart the device to get the software version of your device. The first screen at startup shows the software version of the device. Without turning it off, enter the Setup menu - System - Software Version (Soft Ver).

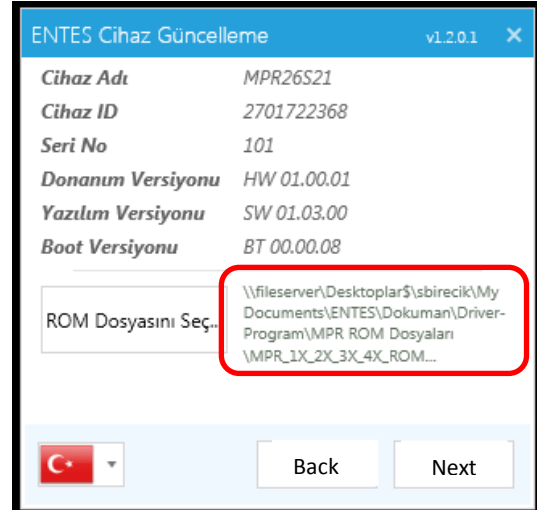


The "S-01.03.00 Seri 00000101" text on the startup screen indicates that the version of the device is 1.3.0.

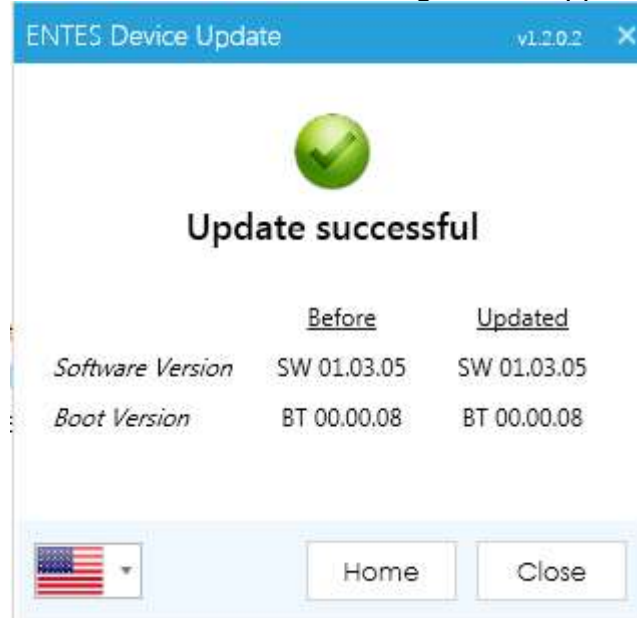
Note: You need to update the ROM files in the following order. Otherwise, the update may fail.

| Update Order | For devices with 1.1.11 version | For devices with 1.2.2 version | For devices with 1.3.0 version | For devices with 1.3.5 version |
|--------------|---------------------------------------|---------------------------------------|-----------------------------------|---|
| 1 | MPR3X_4X_SW1_2_2.rom | MPR1X_2X_3X_3XITA_4X_4XOG_SW1_3_0.rom | MPR1X_2X_3X_4X_4XOG_SW1_3_5B1.rom | Already up to date version. Update is not required. |
| 2 | MPR1X_2X_3X_3XITA_4X_4XOG_SW1_3_0.rom | MPR1X_2X_3X_4X_4XOG_SW1_3_5B1.rom | | |
| 3 | MPR1X_2X_3X_4X_4XOG_SW1_3_5B1.rom | | | |

- When you select the ROM file, the program will read the contents of the file, the following screen will appear. Wait for a while.



- Click **Next** and perform the ROM update.
- When the update is successful, the following screen appears.



Note: If you have any problems during installation, you can contact **ENTES Customer Services**.

Tel: +90 (216) 313 0110

Web: <http://www.entes.com.tr/teknik-destek-en.asp>