PiiGAB
PROCESSINFORMATION

Getting started PiiGAB QuickPost

PiiGAB M-Bus Explorer & PiiGAB M-Bus 900S

www.piigab.com

PiiGAB Processinformation i Göteborg AB • Anders Carlssons gata 7 • S-417 55 Göteborg • Sweden
Tel: +46(0)31 559977 • Fax: +46(0)31 227071 • email: info@piigab.se

Contents

1. Document Information

PiiGAB QuickPost software add-on for PiiGAB M-Bus 900S gateway is developed by PiiGAB with the purpose of helping users to transmit readings of M-Bus meters over FTP or HttpPost without the need to have specific M-Bus drivers in the computer. Inside PiiGAB M-Bus 900S there is an internal meter which will be used to represent an M-Bus meter. PiiGAB's M-Bus ASCII protocol is used to extract the raw M-Bus data from the internal meter and store it into a readable file. PiiGAB have a free and public FTP-server which you may use to test that you can send your files to.

1.1 Versions

Version	Modified by	Detail
1.00.00	Stefan Eriksson	Initial version.
1.00.01	Stefan Eriksson	Edited distributor contact information.
1.00.02	Stefan Eriksson	Changed URL to public FTP-server.
1.01.00	Stefan Eriksson	Minor changes for PiiGAB M-Bus 900S.

2. Conditions

2.1 Preconditions

- <continue>

2.2 Requirments

- PiiGAB M-Bus 900S gateway V2.02.02 or higher of MBusHub.
- Connection to the PiiGAB M-Bus 900S gateway and it's web interface.
- License for PiiGAB QuickPost in your PiiGAB M-Bus 900S.
- PiiGAB M-Bus Explorer installed.

2.3 Optional requirements

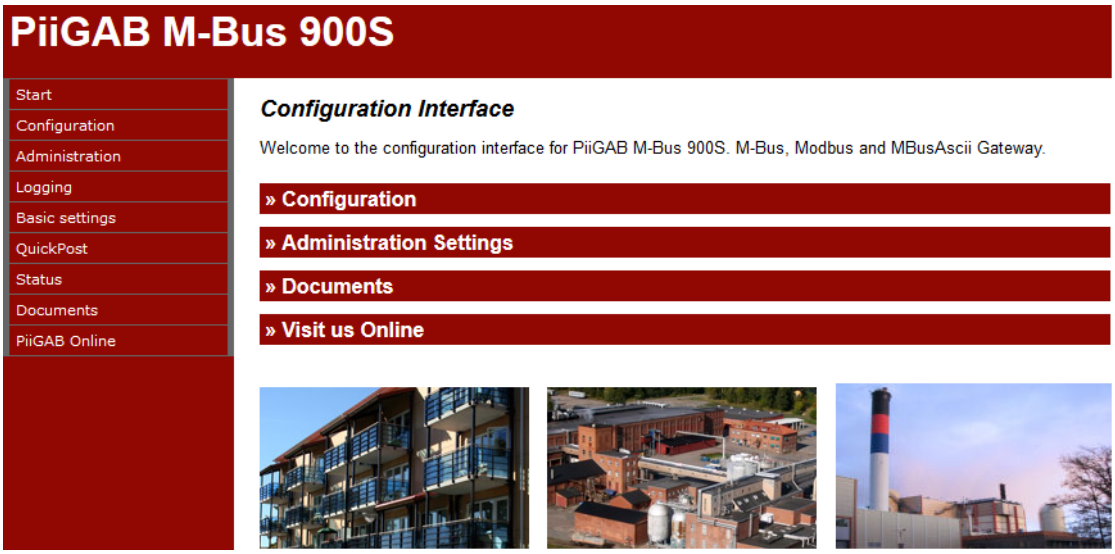
- <continue>

3. Software and license

This section will describe how to check the software and license for the QuickPost.

3.1 Check QuickPost software installation

1. Open PiiGAB M-Bus 900S's web interface.



2. In the left navigation field, make sure *QuickPost* is present.

Note:
If you don't have QuickPost available in the navigation field please go to section *3.3 Installation QuickPost* for instructions how to install it.

3.2 Check QuickPost software license

1. Open PiiGAB M-Bus 900S's web interface.
2. Click on *Administration.*
3. Go down to the section called *License.*
4. Make sure *QuickPost* is visible in the *Protocols* field.

Note:
If you don't have a license enabling QuickPost, please contact PiiGAB to order it. Make sure to specify the PiiGAB M-Bus 900S's serial number.

3.3 Installing QuickPost

If your PiiGAB M-Bus 900S lacks QuickPost software you can download it and install it your self:

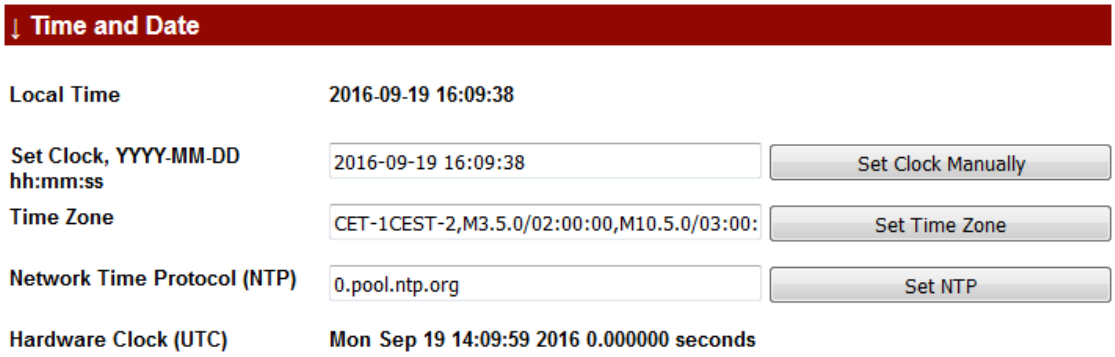
1. Go to PiiGAB's homepage www.piigab.com and the download section.
2. Download the QuickPost file to your computer.
3. Open PiiGAB M-Bus 900S's web interface.
4. Click on *Administration.*
5. Go down to the *Update software* section.

6. Press the *Browse* (Bläddra…) button and browse the QuickPost file on your computer.
7. Press the *Install* button.
8. Wait a couple of seconds to let the installation complete.
9. Update/refresh your browse.
10. QuickPost should now be present in the left navigation field.

3.4 Set the gateway's internal clock (optional)

It's recommended to set the internal clock in the PiiGAB M-Bus 900S to match the FTP- or HttpPost-servers' clock.

1. Open PiiGAB M-Bus 900S's web interface.
2. Click on *Administration.*
3. Go down to the *Time and Date* section.



4. Configure the internal clock as best suits your site.

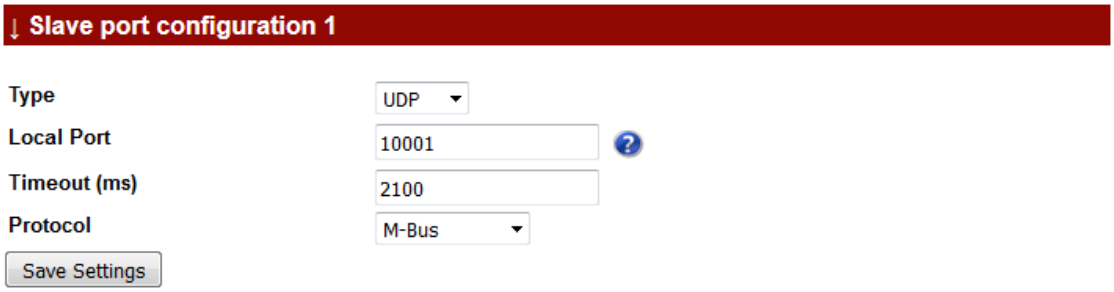
4. Configure an M-Bus ASCII project

This section will describe how to configure an M-Bus ASCII protocol in PiiGAB M-Bus Explorer to read the internal meter in PiiGAB M-Bus 900S.

4.1 Configure slave port 1 for M-Bus communication

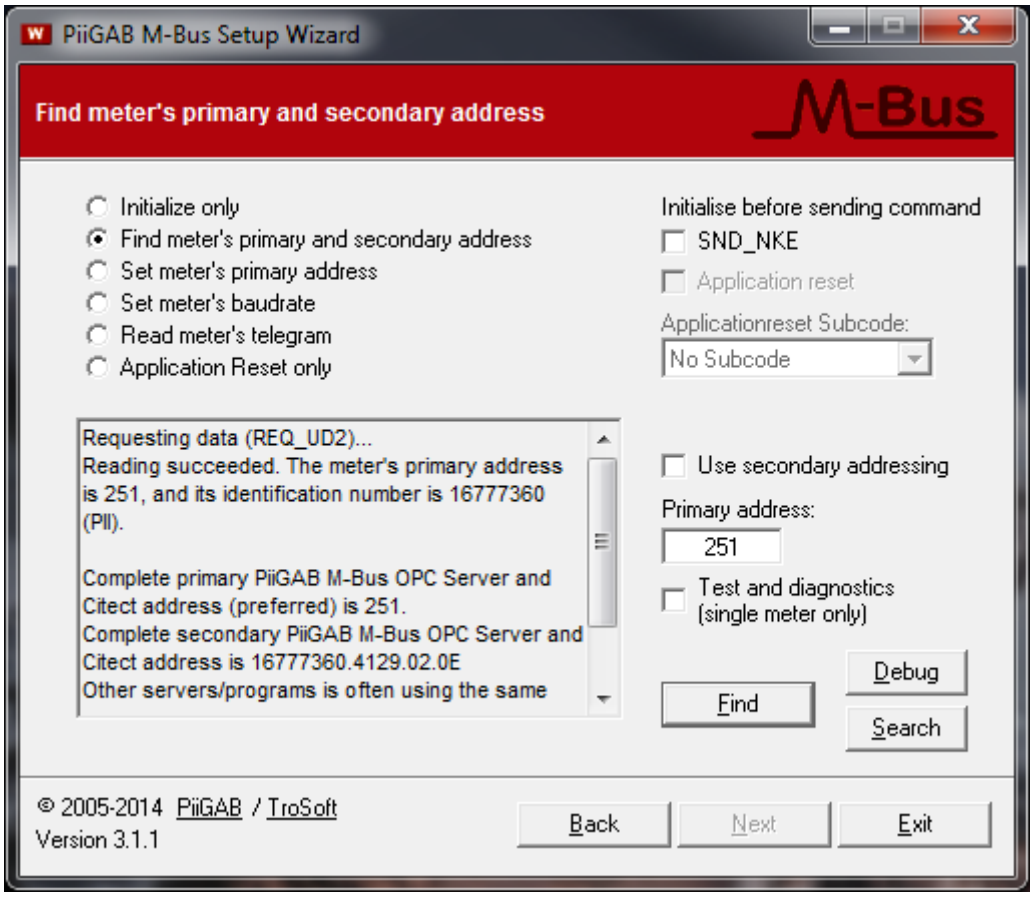
Slave port 1 can be used to read the internal meter inside your PiiGAB M-Bus 900S.

1. Open PiiGAB M-Bus 900S's web interface.
2. Click on *Configuration.*
3. Click the *Slave port 1* tab.
4. Configure slave port 1 as the picture bellow.



5. Press *Save Settings* button.

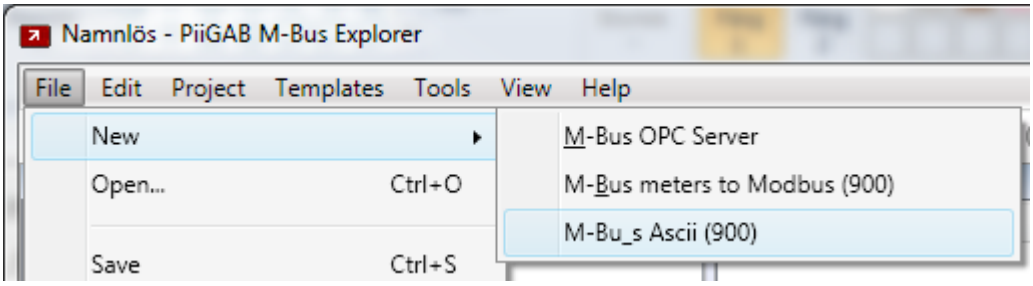
Slave port 1 is now configured for M-Bus communication. You can read the internal meter in *PiiGAB M-Bus Setup Wizard* with primary address 251.



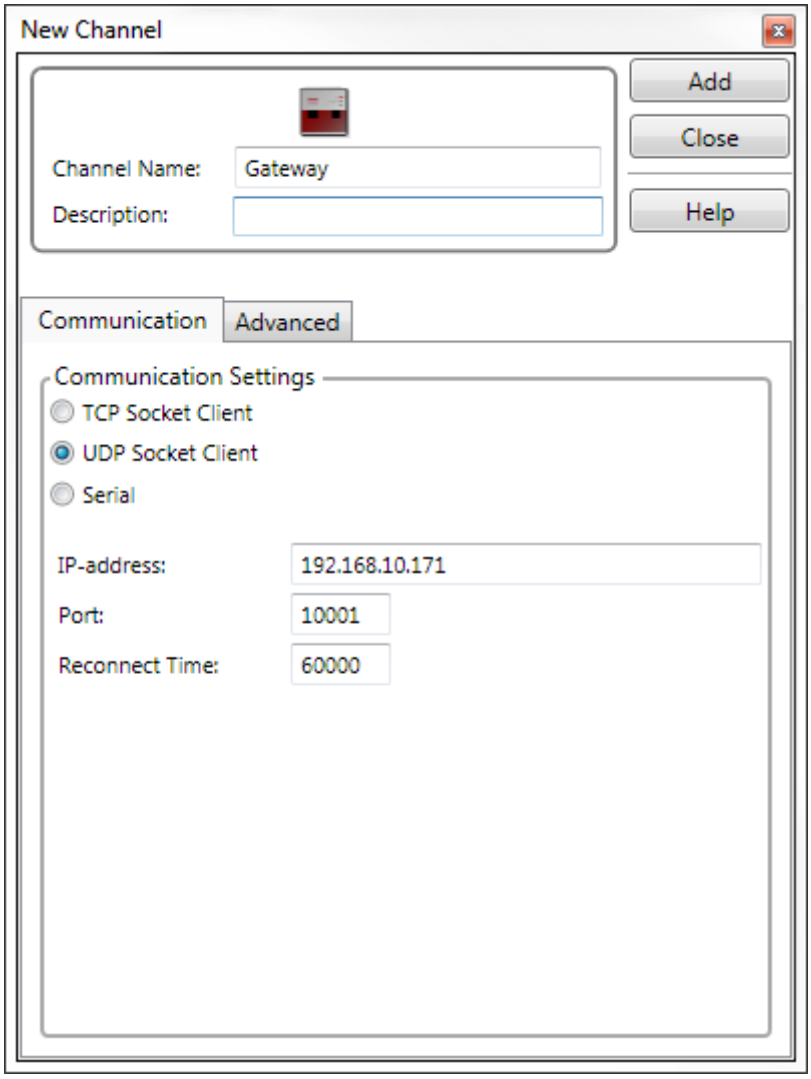
4.2 Configure PiiGAB M-Bus Explorer for M-Bus ASCII

The internal meter inside PiiGAB M-Bus 900S contains for instance of M-Bus voltage, M-Bus current and the serial number. The voltage, current and serial number can be used to represent actual values from an M-Bus meter.

1. Start *PiiGAB M-Bus Explorer.*
2. Create a new M-Bus ASCII project.

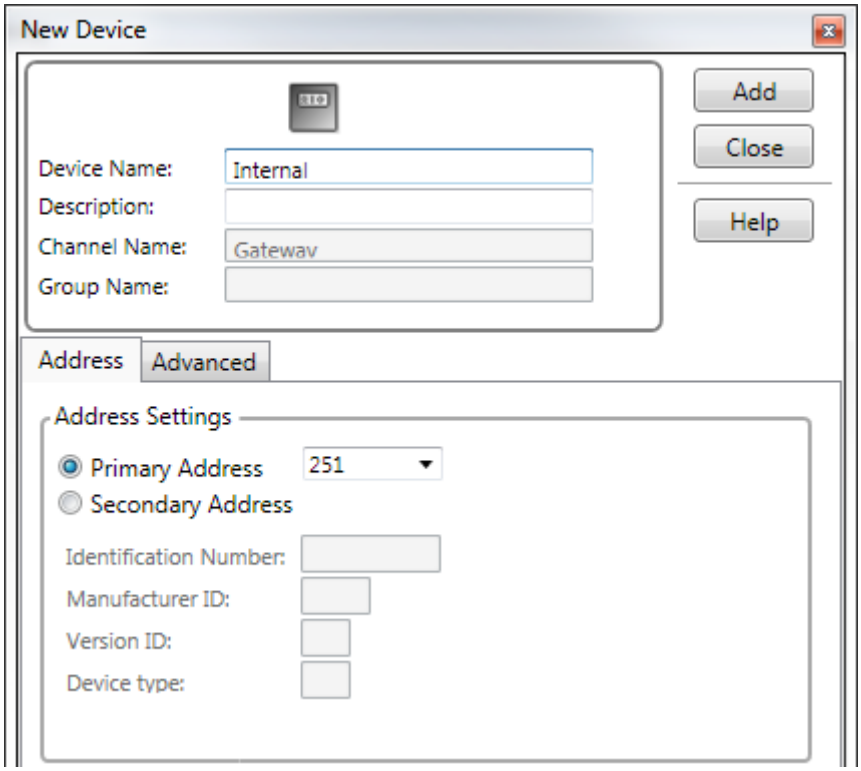


3. Create a new channel and configure it as the picture below.



Note:
Your PiiGAB M-Bus 900S's IP-address may be something different than the example.

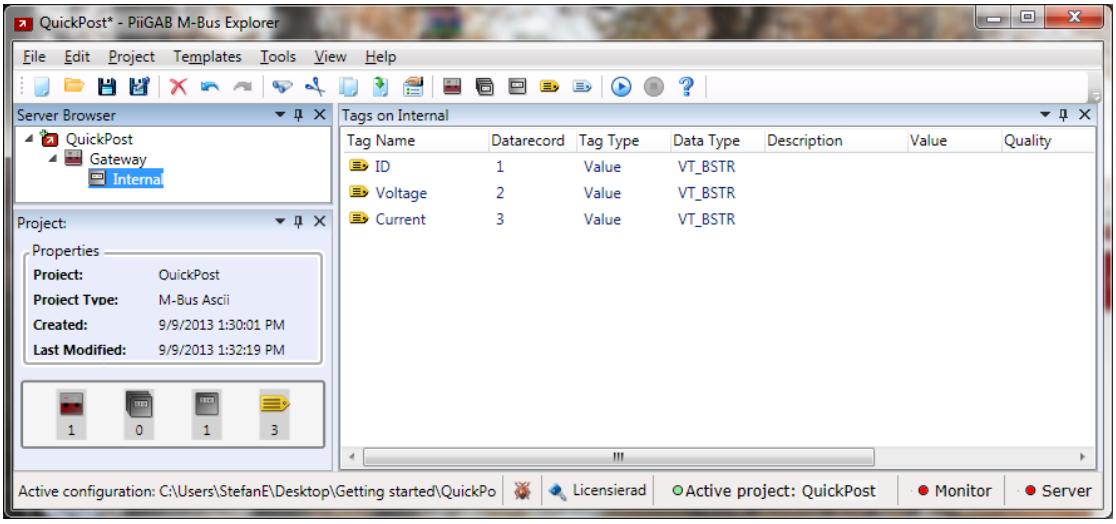
4. Create a new meter and configure it as the picture below.



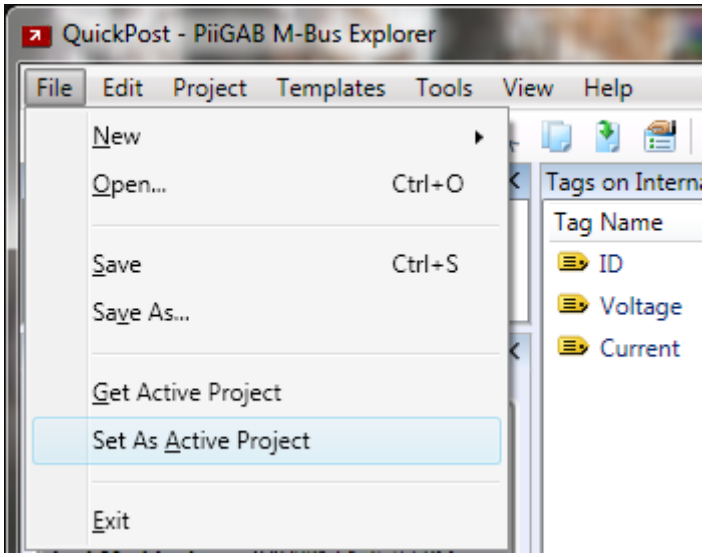
5. Create three OPC-items in the meter. The specifications for the OPC-items are.

Name	Data record	Tag type	Data type
ID	1	Value	VT_BSTR
Voltage	2	Value	VT_BSTR
Current	3	Value	VT_BSTR

The configuration of the three OPC-items should be as the picture below:

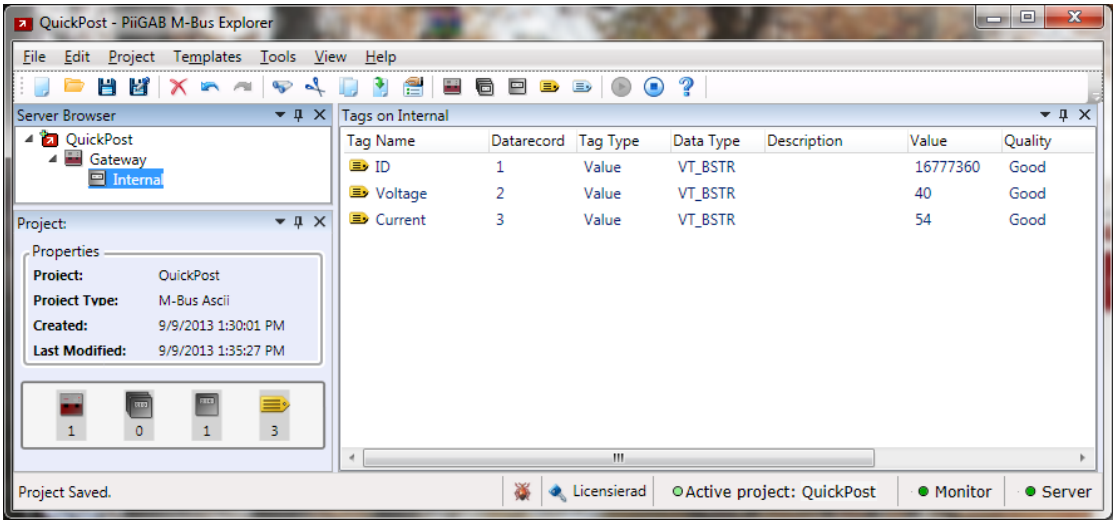


6. Set the project as active project.



7. Make sure the project is the active project and the server indication is steady red.

8. Save the project.
9. Start the monitor function by pressing the button.
10. Wait for *Quality* cell for each OPC-item to change to *Good.*



Note:
If you don't have quality *Good* on your OPC-items then you have some configuration errors. See over primary address, IP-address, port number and protocol. You can also test the communication with *PiiGAB M-Bus Setup Wizard*.

If you receive values, simular as the picture above, you have a working M-Bus ASCII project ready for QuickPost.

5. Configure PiiGAB M-Bus 900S for QuickPost

This section will describe how to configure the master port and slave port 2 for QuickPost. To configure the QuickPost software please see section 6. *Configure QuickPost*.

5.1 Upload the M-Bus ASCII CSV-file to the PiiGAB M-Bus 900S

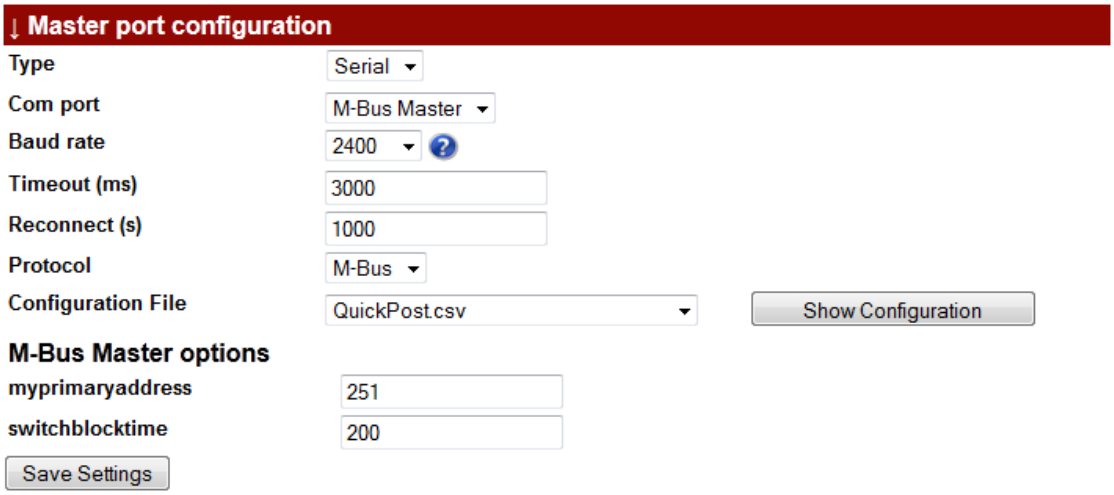
1. Open PiiGAB M-Bus 900S's web interface.
2. Click on *Configuration.*
3. Go to the *Upload CSV-file* section.

4. Press the *Browse (Bläddra…)* button and browse to the *M-Bus ASCII CSV-file* on your computer. The file is located in the same folder where you created the M-Bus ASCII project in PiiGAB M-Bus Explorer.
5. Press the *Upload* button to upload the file into the gateway.

5.2 Configure master port

The CSV-file, uploaded in section 5.1, must be bound to the master port.

1. Open PiiGAB M-Bus 900S's web interface.
2. Click on *Configuration.*
3. Click the *Master port* tab.
4. Select the CSV-file you uploaded in section 5.1 in the *Configuration File* field.
5. Press *Save Settings* button.

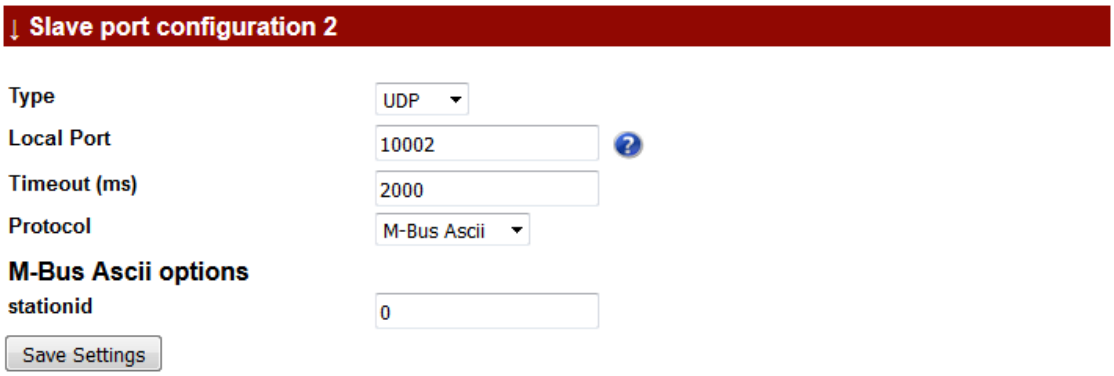


5.3 Configure slave port 2

One of the PiiGAB M-Bus 900S's slave ports must be configured for M-Bus ASCII. Slave port 2 can be chosen for M-Bus ASCII since slave port 1 is already used for M-Bus communication. With this setup M-Bus communication with PiiGAB M-Bus Explorer and other M-Bus clients goes through slave port 1 and M-Bus ASCII goes through slave port 2.

Note:
If you have a license which only enables one slave port you can use slave port 1 instead of slave port 2.

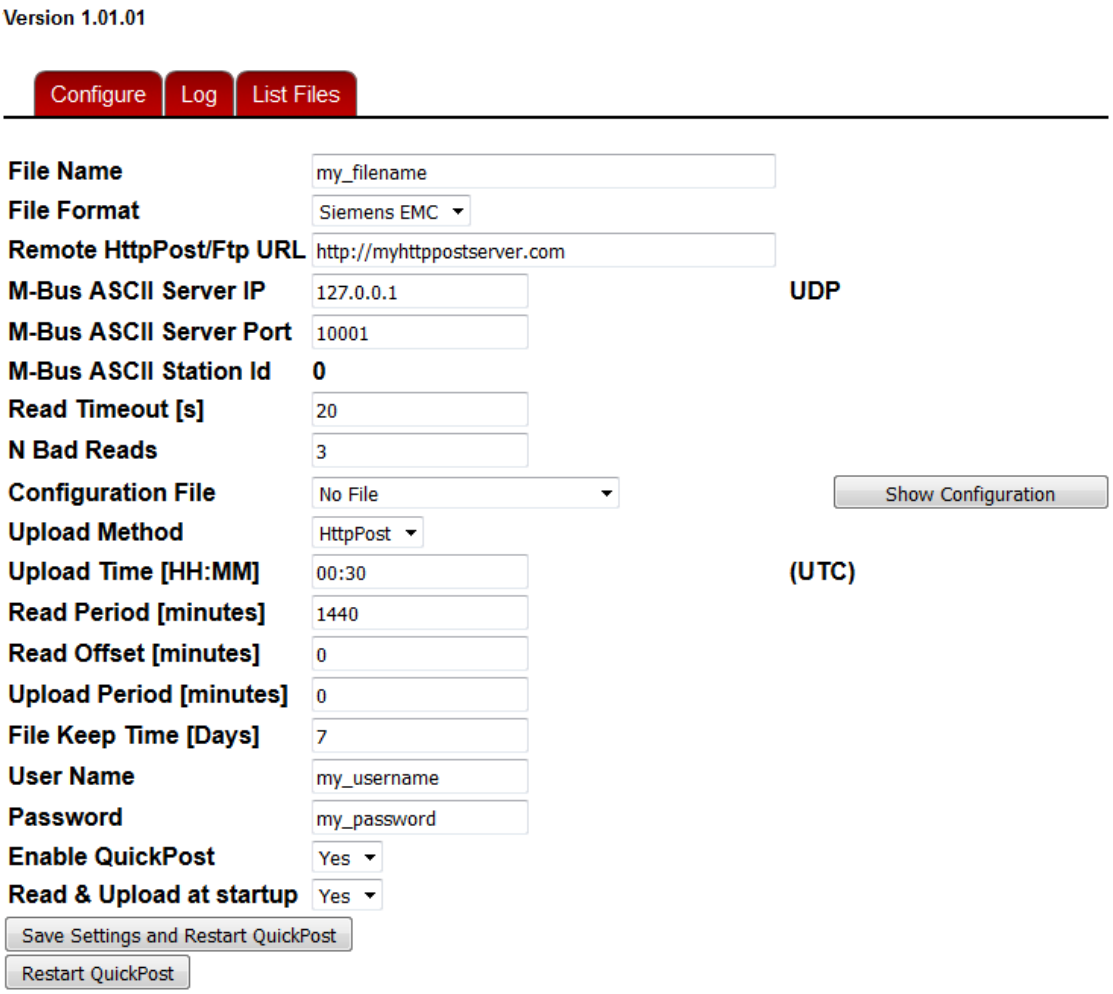
1. Open PiiGAB M-Bus 900S's web interface.
2. Click on *Configuration.*
3. Click the *Slave port 2* tab.
4. Configure slave port 2 according to the picture below.
5. Press *Save Settings* button.



6. Configure QuickPost

This will describe the basic of configure QuickPost. Make sure QuickPost is installed and you have license for QuickPost. Please see section *3. Software and license*.

1. Open PiiGAB M-Bus 900S's web interface.
2. Click on *QuickPost.*

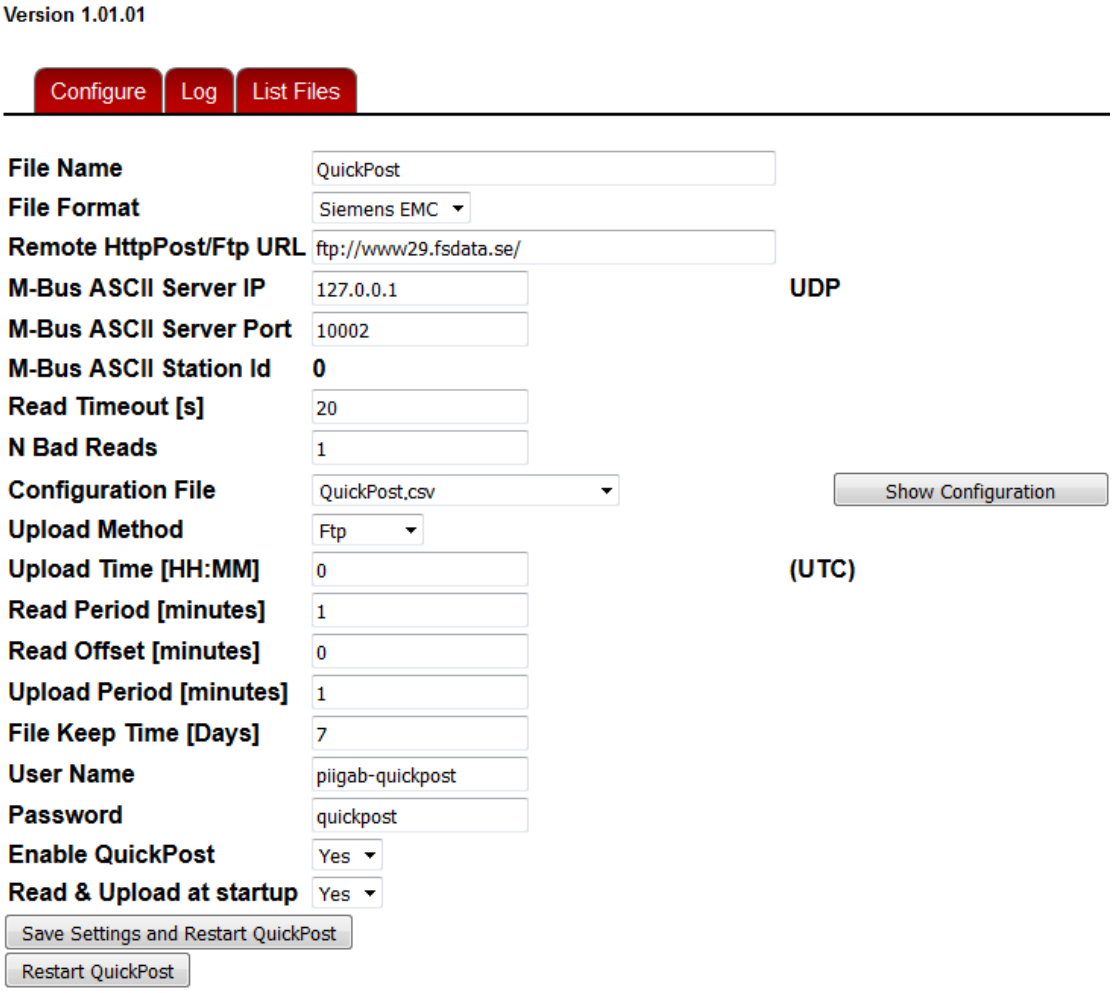


3. All fields must be specified for the QuickPost to work properly.
   - Note the *Configuration File* field should be the same as the configuration file on the Master port.
   - Please see the manual of QuickPost for a detail description of all fields.
4. Use the *Enable QuickPost* switch to either enable or disable the QuickPost process.
5. Press *Save Settings and Restarts QuickPost*.

7. Test with PiiGAB's FTP-server

You may test your configuration to PiiGAB's public FTP-server.

1. Please configure the QuickPost as the picture below:



2. Press the *Save Settings and restart QuickPost* button.

This should read the internal meter each minute and upload the result in a separate file to the FTP-server.

You may use any FTP-client to connect to the FTP-server and check that your file has been sent. There is a built-in FTP-client in Windows Explorer which you can use.

8. Appendix

8.1 Contacts

PiiGAB Processinformation
Anders Carlssons gata 7
417 55 Göteborg
Sweden

Phone + 46 31 55 99 77
www.piigab.com

Distributors

Please contact our distributors in respective countries:

Germany

Relay GmbH
Stettiner Str. 38
33106 Paderborn
Germany

Phone +49 5251 17670
www.relay.de

Norway

Autic Systems AS
Stoltenbergs gate 48
3110 Tønsberg
Norway

Phone +47 33 30 09 50
www.autic.no

Czech Republic

Papouch store s.r.o.
Strasnicka 3165/1b
102 00 PRAGUE 10
Czech Republic

Phone +420 267 314 267-8
www.papouch.com