

TELTONIKA FMM125 Testing RS-232 and RS-485 TCP Link Mode Instructions

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FMM125 Testing RS-232 and RS-485 TCP link mode Instructions

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FMM125 Testing RS-232 and RS-485 TCP Link Mode

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Step 1. Understanding what is FMM125 RS232/RS485 TCP Link mode

In this mode link with external device (for example PC) using text messages can be established. FMM125 has to be connected to the external device through RS232 or RS485. Any string of data coming to RS232 or RS485 will be routed to server (if link is currently active). Messages that are exchanged between FMM device and server, have to be packed in Codec.12 format. Here for TCP link establishment we will be using Hercules. For sending messages from external device to server over FMM125 Terminal will be used.

Step 2. Setting parameters in configurator for TCP Ascii mode test

First of all, in the FMM125 configurator you have to set parameters for RS232 or RS485 (depends on which RS232 or RS485 port you are using) in global parameters window.



[File:FMB125 RS232 configuration window.png – Wiki Knowledge Base | Teltonika GPS \(teltonika-gps.com\)](#)

Here in RS232 settings section Baudrate can be chosen to any available. Mode has to be chosen to TCP Ascii.

2.1. Message Timestamp

Message Timestamp parameter is used to determine if it is necessary to include timestamp in RS232 TCP packet when sending to server. If parameter is Enabled, then Codec 13 is used for data sending.

Otherwise, Codec 12 is used.

You can also use RS485 which is also suitable for Ascii TCP Link mode. In order to make a link between FMM125 device and server, Domain and Target Server Port have to be set in the working device profile, GPRS data sending Settings section. When right parameters are set, you can save the configuration to FMM125 device.

Step 3. Establishing FMM125 test link with server through Hercules

In this case we have a PC that is considered to be a server and an external device at the same time. When FMM125 is configured and connected to the external device, next what we have to do is to start Hercules (Figure 2) which is in server side and will be used for sending/receiving messages.

(Please keep in mind that external device RX cable needs to be connected to FMM125 device TX cable and external device TX cable connected to FMM125 RX cable.)



[File:FMB125 Hercules window 1.1.png – Wiki Knowledge Base | Teltonika GPS \(teltonika-gps.com\)](#)

Here you have to choose TCP Server section from the upper menu. In the marked fields:

1. Write your server (PC) port and press Listen button;
2. In the Client connection status you will be able to see if a connection between server and FMM device has started successfully;
3. In the Send field you can write a message that is packed in Codec.12 format which will be sent to FMM125 device.

Step 4. Sending from server to external device over Hercules

When sending a message from Hercules, first you have to pack it in Codec.12 format. If you want to send a message to external device over FMM125 from server, a packed message should be pasted into the Send field in Hercules (Figure 2, marked field 3). The HEX format box should be unchecked if the text is in HEX format (for example:

00000000000000260C01050000001e48656c6c6f2c206c657473207465737420544350206c696e6b20

6d6f64650100001aef etc.). When you press Send button, you will see your message in the Sent data field (Terminal). If the message is sent successfully to FMM125, you can check it in the Terminal window.

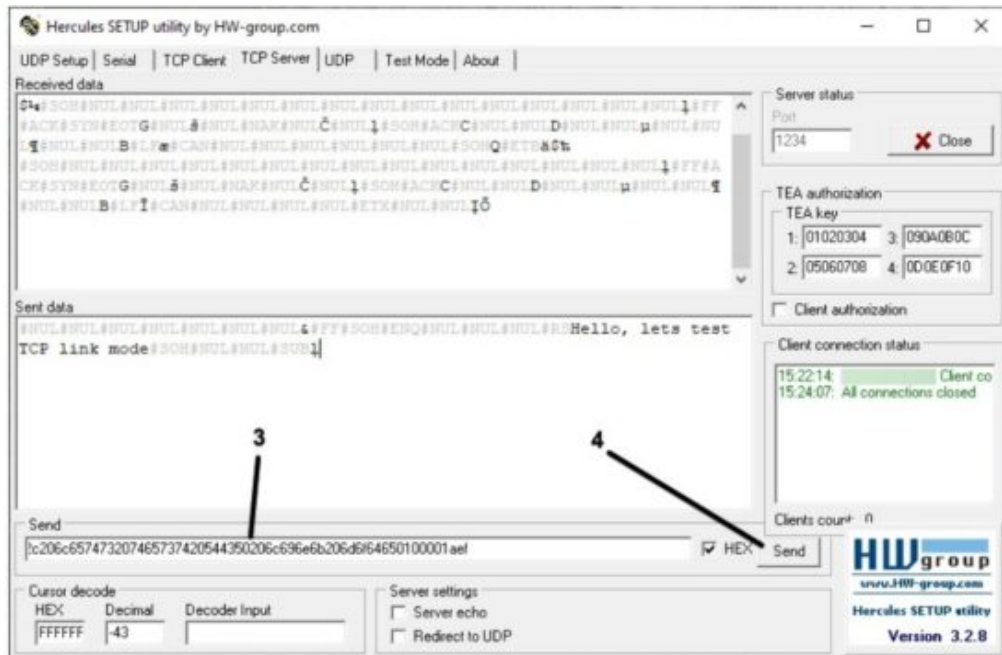
Connect Port ½ cable one end to RS232 RX/TX cables on FMM125 device and then connect USB side to computer. Please find which port is used for Port ½ cable in device manager. Please select correct COM Port (1). In this case we use COM21. Then press connect (2).



[File:FMB125 Terminal window.png – Wiki Knowledge Base | Teltonika GPS \(teltonika-gps.com\)](#)

Open Hercules application and just type your message in the marked field (3) and press Send button (4). If sent successfully, you will see it in Hercules Sent data field (Figure 4). For example test text will be sent: Hello, lets test TCP link mode. In Codec.12 format it looks:

0000000000000260C0105000001e48656c6c6f2c206c657473207465737420544350206c696e6b206d6f64650100001aef



On terminal you should now receive message:



[File:FMB125 Terminal window1.png – Wiki Knowledge Base | Teltonika GPS \(teltonika-gps.com\)](#)

Step 5. Sending from external device to server over Terminal

For testing data sending from external device to server, enter text you want to send on Terminal and press send.



[File:FMB125 Terminal window2.png – Wiki Knowledge Base | Teltonika GPS \(teltonika-gps.com\)](#)

You can check if data is received to server in Hercules. Sample text: Hello, lets test TCP link mode. Please keep in mind, that special chars (ASCII Names) needs to be marked.



[File:FMB125 Hercules window3.png – Wiki Knowledge Base | Teltonika GPS \(teltonika-gps.com\)](#)

Links for download

1. [Hercules SETUP utility](#)
2. [Terminal download](#)



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References

- [User Manual](#)

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