

(Storage-) inverter type detection

I will show a almost simple and cheap way to detect if your equipment ist supported by the requester .ino.

What you will need:

1. A terminal program that is able to send binary files without changing them and is able to display received data as HEX value.

I prefer HTerm for that you can download it from:

<http://der-hammer.info/pages/terminal.html>

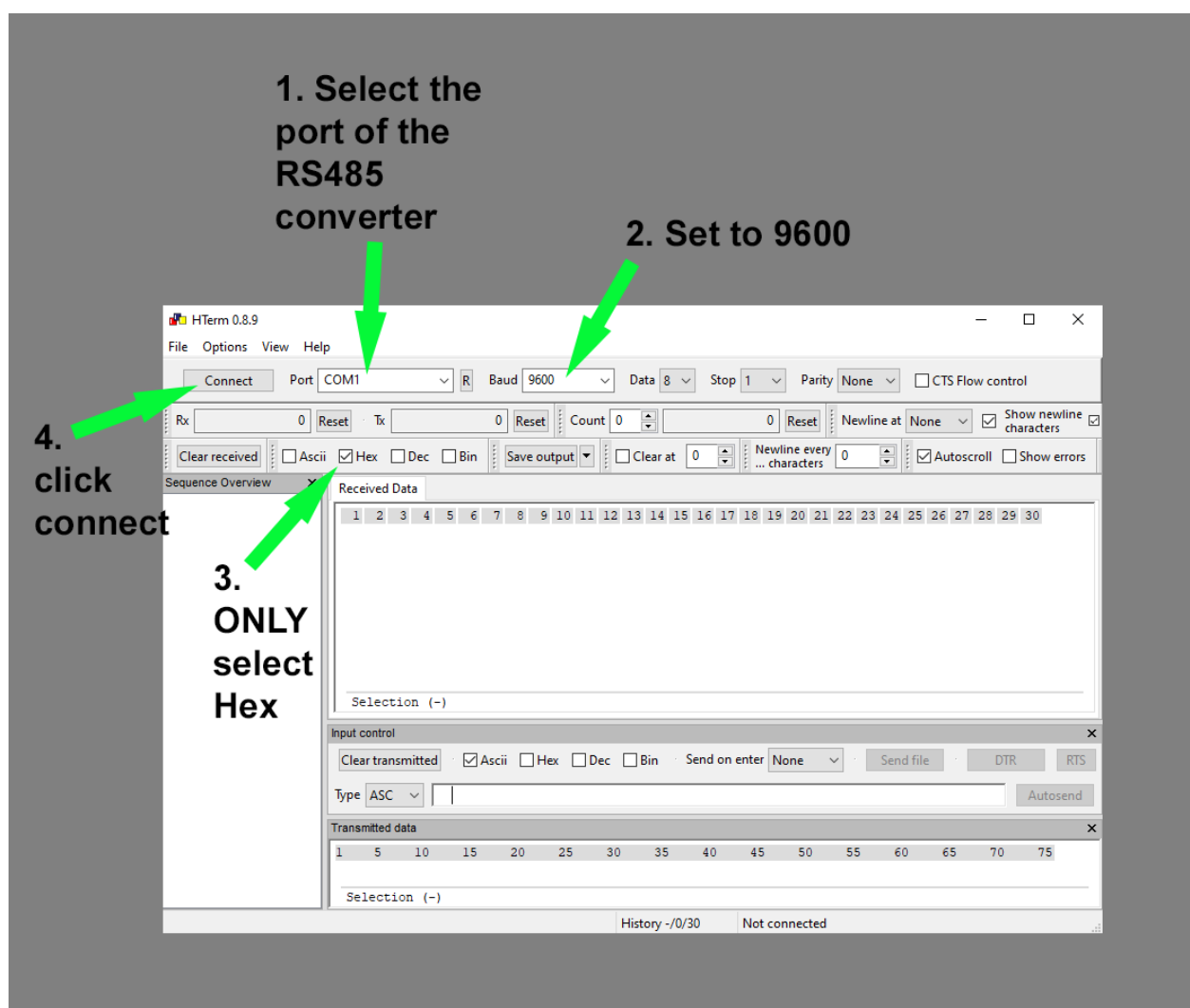
2. A USB-to-RS485 or a Comport-to-rs485 converter.

I prefer something like this:



Let's start:

1.
Disconnect **ALL** devices from the Modbus port of the inverter and set the inverter address to 1 .
2.
Connect the A pin of the converter to the A pin of the Modbus port, connect the B pin of the converter to the B pin of the Modbus port.
(Don't use long wires !).
3.
Attach the converter to your Computer.
4.
Launch HTerm and follow the four steps provided in the image below.



5.

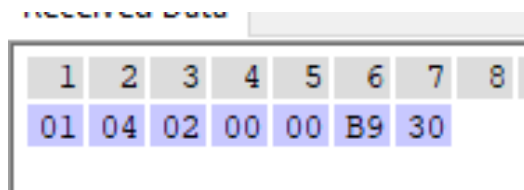
Wait a few seconds. The <Received Data> panel should be empty, if not click the <Clear received> button. Now click on the <Send file> button, select the file typerequest.bin and click the <Start> button.

6.

If the <Received Data> panel stays empty , check you cables and devices and start from the beginning else continue with step 7.

7.

The received Data panel should now show a few HEX values.
for example like this:



1	2	3	4	5	6	7	8
01	04	02	00	00	B9	30	

IF the first value is not equal to 01 something went wrong , restart from the beginning

IF the second value is not equal to 04 your equipment does not support this register in case of old firmware and/or equipment.
Actually the software does not support it / will not work.

IF the fourth value is equal to 10 the software
does not support it / will not work
but I'm looking for the data to integrate it actually.

IF the fourth value is either equal to 00 or equal to 20 the software will work.

Any other value than the described is unsupported.