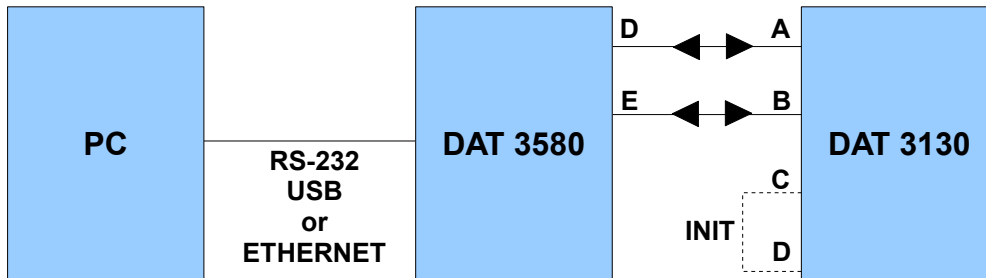


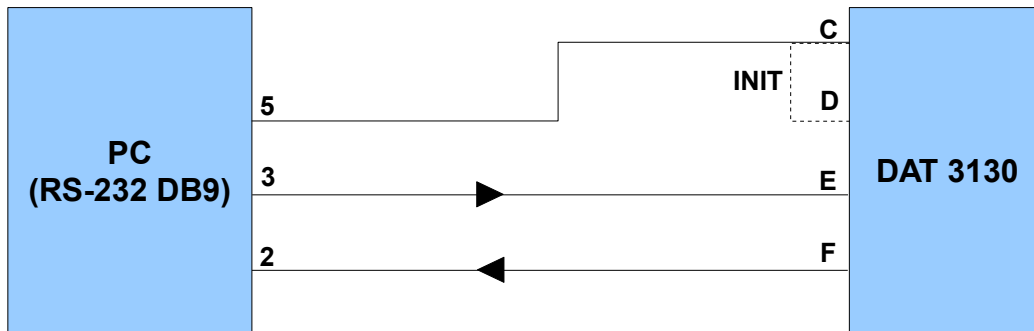
Use of the software DAT3000Modbus to set-up the device DAT3130

STEP 1 – Connect device

RS-485 devices: Connect the PC to serial converter (DAT3580 or similar) and devices to set-up as follows:



RS-232 devices: Connect the PC to the devices to set-up as follows:



Refer to the technical documentation of the device for the proper connection.

STEP 2 – Open the connection

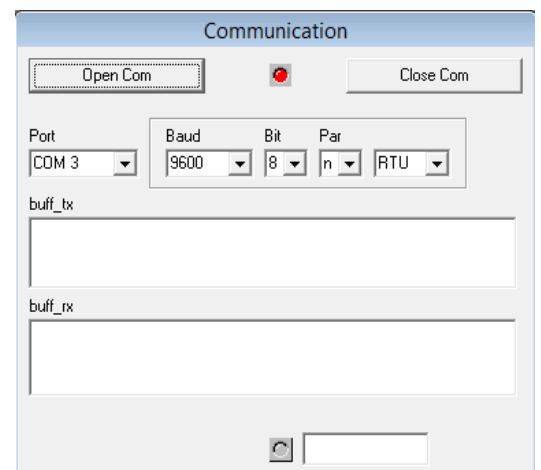
In DAT3000Modbus software, the Communication window is always visible.

→ If address or baud rate of the device is unknown, connect the INIT terminal (D) to the GND terminal (C) and reset the device (power off and power on). Until the terminals are connected, the device will communicate as address 1, 9600 bps and RTU mode.

→ Open DAT3000Modbus software.

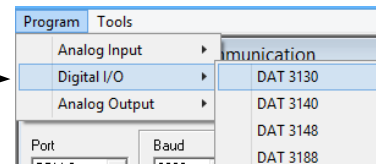
→ In the Communication window (always visible) select the proper COM port and the baud rate of the device (if INIT connected, select 9600bps and 8,n,RTU mode).

→ Click on “Open COM”. If the red led will turn on, the COM port will be successfully opened. If not, check for availability of the COM port and if it is free (not used by other software).



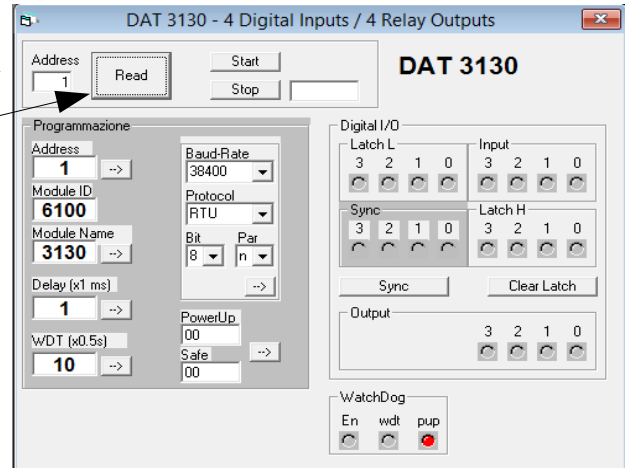
STEP 3 – Read and change the device configuration

→ Open the device configuration form clicking “Program”
→ Digital I/O → DAT3130. The proper configuration form will be shown.



→ Set in the Address field at the top left the address of the device (if INIT connected, set 1).

→ Click “Read”. All fields will be filled with the actual setting.
Click the “Start” button to update continuously the parameters. Click “Stop” to stop the update.



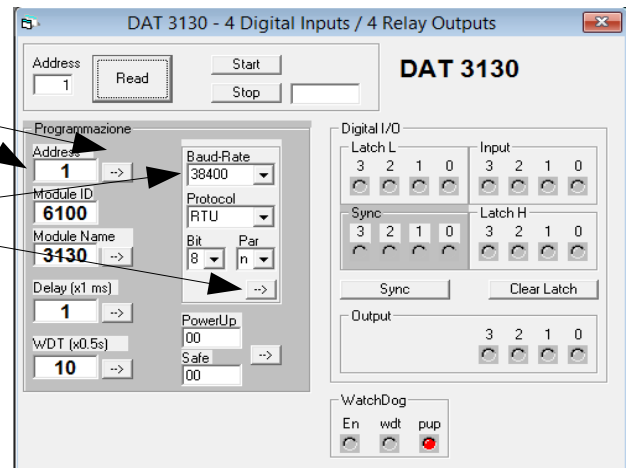
→ To change a parameter, set the proper field and click on the relative “-->” button.

Example: configure the device to Address 1, 38400bps

→ Set the field “Address” to 1 then click on the relative “-->” button.

→ Set the field “Baud-Rate” to 38400 then click on the relative “-->” button.

→ Click on “Read” to check for the successful change of parameters.

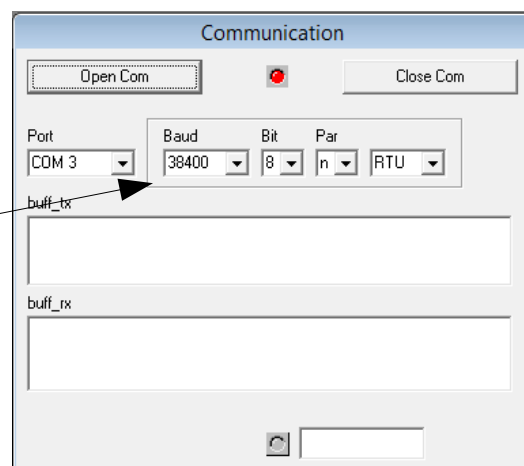


STEP 4 – Test the device

→ Remove the INIT connection and reset the device (power off and power on).

→ In the Communication window, click on “Close COM”. The red led will turn off.

→ Set the baud rate to 38400, then click on “Open COM”. The red led will turn on.

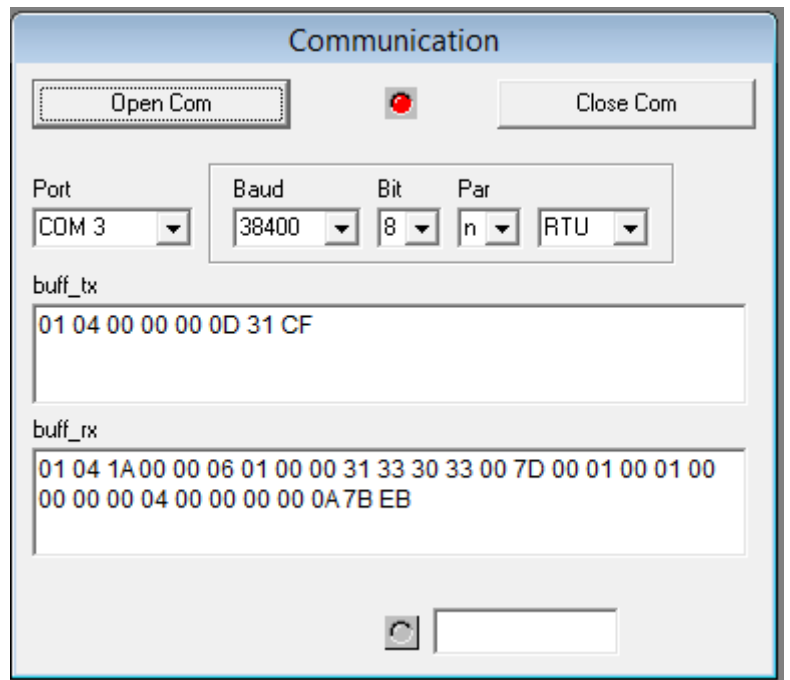
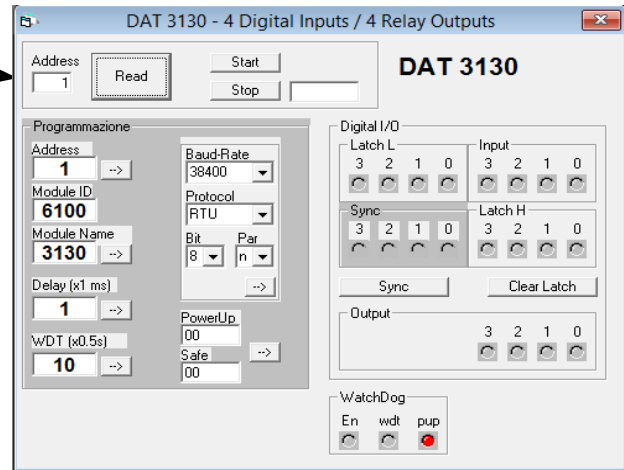


→ In the device form, set in the Address field at the top left the address of the device (1).

→ Click on “Read”. All fields will show the actual setting. Click the “Start” button to update continuously the parameters. Click “Stop” to terminate the update.

If the communication ends well in the section buff_tx will be shown the query and in the section buff_rx will be shown the response.

If no errors occur, the device is successfully configured.



STEP 5 – Set and read digital I/O:

→ Click on “Read”. The “Digital I/O” Leds will show the actual input state:

Gray = OFF
Red = ON

When an input changes the latches will show the single change of state. To reset them click the button “Clear Latch”

→ To force the digital output, click in the relative led to toggle the digital output state

Gray = OFF
Red = ON

→ To force the outputs at the power-on set the value Power up as hexadecimal (letters in Bold)

→ To force the outputs at the safe condition (Watchdog) set the value Safe as hexadecimal (letters in Bold)

