

Guida alla connessione e settaggio HMI/PLC

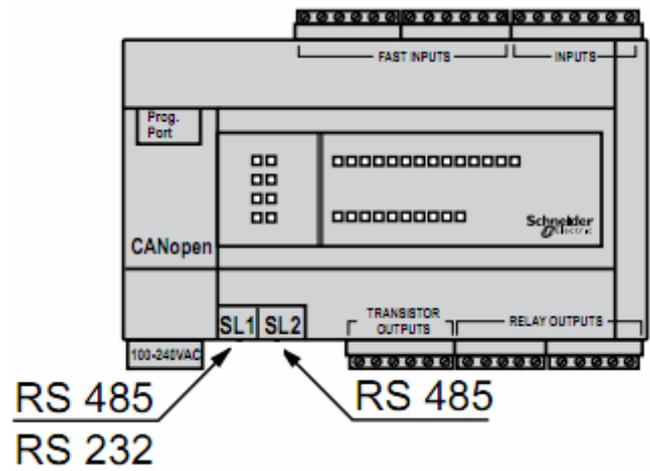


Comunicazione tra HMI Kite e Schneider-M238

Preface

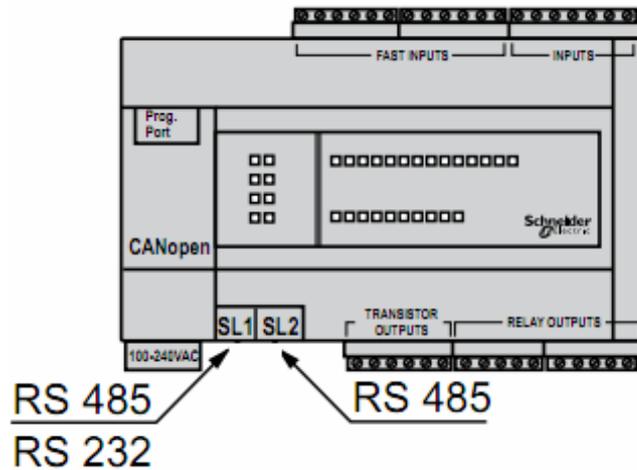
This technote is to explicate how to connect Schneider-M238 PLC with PanelMaster HMI as well as the associated communication settings.

This technote goes for Schneider-M2XX and ATV31 series. Take Schneider-M238 as example.



M238 Controller Settings:

1. M238 Communication Ports:



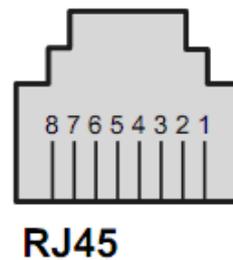
M238 has two communication ports SL1 and SL2, which are RJ45 terminal. It's suggested to connect HMI with SL1 port to avoid complicated setup process.

2. M238 pin:

SL1

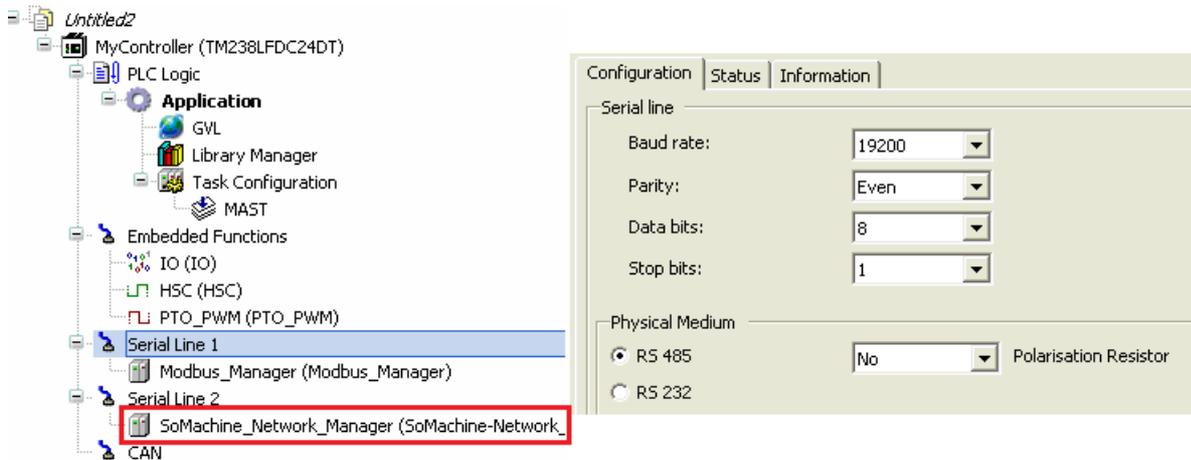
SL2

N°	RS 232	RS 485	RS 485
1	RXD	N.C.	N.C.
2	TXD	N.C.	N.C.
3	RTS	N.C.	N.C.
4	N.C.	D1 (A +)	D1 (A +)
5	N.C.	D0 (B -)	D0 (B -)
6	CTS	N.C.	N.C.
7	N.C.	N.C.	+ 5 V
8	0 V com.	0 V com.	0 V com.



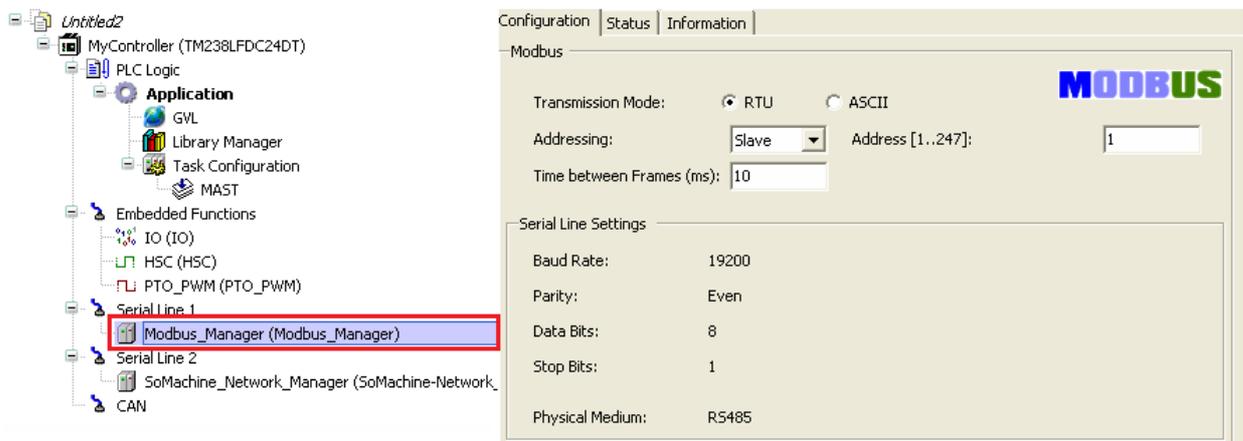
3. PLC Software Settings

1.1 Transmission/Physical Medium Settings



Note: The default parameters setting are 19200, 8, E, 1, node: 1 respectively.

1.2 Modbus Communication Settings



Transmission Mode: RTU

Addressing: slave

Address: 1

Time between Frames (ms): 10ms

4. **Connection Illustration : (HMI and M238)**

PV/PT COM 1			M238 _SL1_ RJ45	
9-PIN D-Sub Male				
1	RS485 +	-----	4	D1(A+)
6	RS485 -	-----	5	D0(B)

PM Designer Settings:

1 Link Settings:

Link Properties

General Parameter

Link Number: 1

Link Name: 連線1

Link Type: Direct Link (COM)

Device/Server: Schneider Electric ATV31 Inverter (RTU)

Link Port: COM1 (連線1) Sub-links

2 Parameters Settings: The parameters settings need to be identical with the ones in PLC.

Link Properties

General Parameter

Transmission

Baud Rate: 19200

Data Bits: 8

Parity: Even

Stop Bits: 1

Others

Panel Address: 1

PLC Address: 1

Timeout Time: 0 (x 0.1 Sec.)

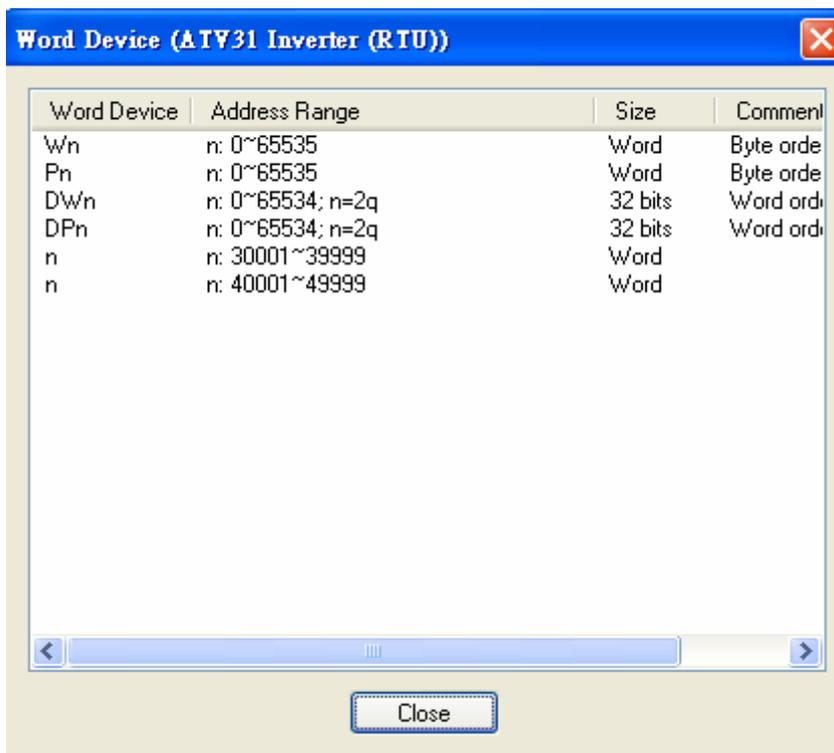
Command Delay: 0 (x 0.1 Sec.)

Retry Count: 0

Note 1: The max Baud rate of M238 is 115,200 °

Note 2: The default Baud rate of M238 is 19200, 8, E, 1, node: 1. It's suggested to keep Baud rate in 19200.

The following illustration are the word devices for HMI:



3 The following illustration are the bit devices for HMI:

