

SAIA PCD S-BUS Mode

Supported Series: SAIA PCD series S-Bus mode.

Website: <http://www.saia-burgess.com/>

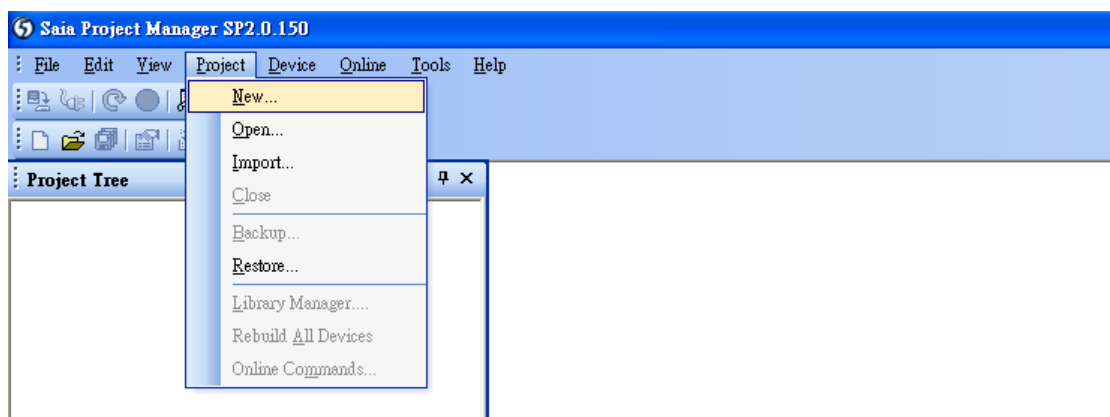
HMI Setting:

Parameters	Recommended	Options	Notes
PLC type	SAIA PCD S-BUS Mode		PDS driver
PLC I/F	RS232	RS232, RS485	
Baud rate	9600	9600, 19200, 38400	
Data bits	8	7,8	
Parity	None	Even, Odd, None	
Stop bits	1	1	
PLC sta.	0	0-255	

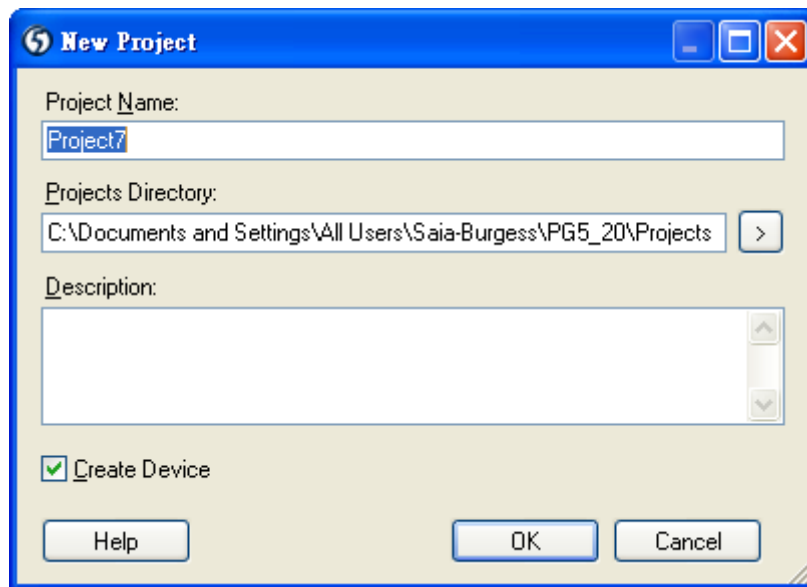
PLC Setting:

Communication mode	9600,N,8,1 (default)
RS232	Port 0-Type: RS232
RS485 2W	S-BUS Mode: Data(S2), Port 1-Type: RS485

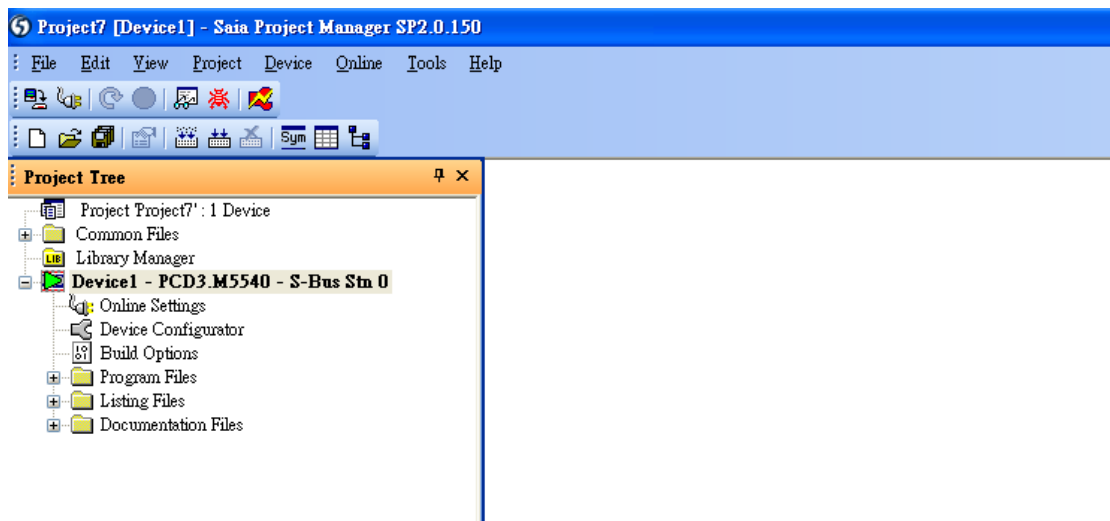
1. Open Saia Project Manager SP2.0.150 and create a new project.



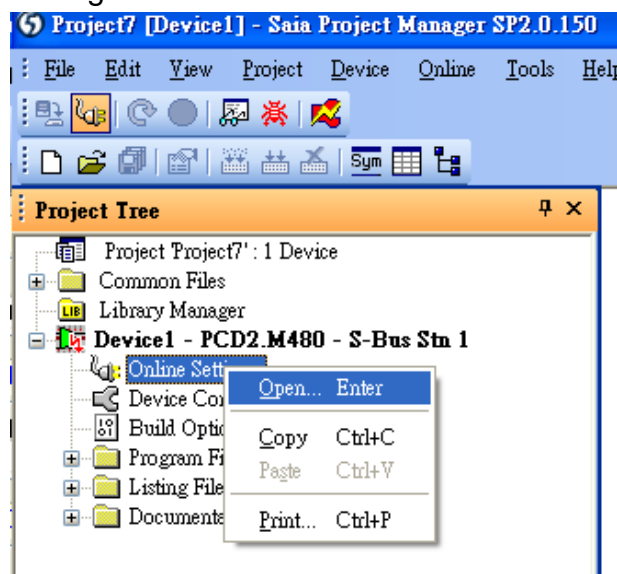
2. Give a project name.



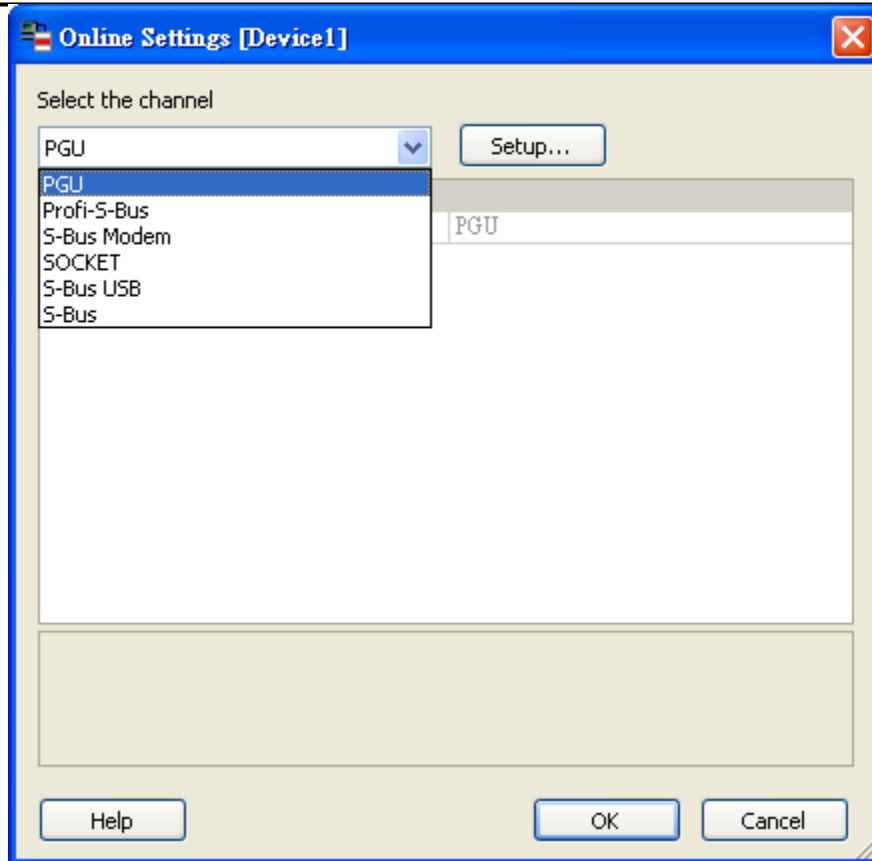
3. Create a new project as below.



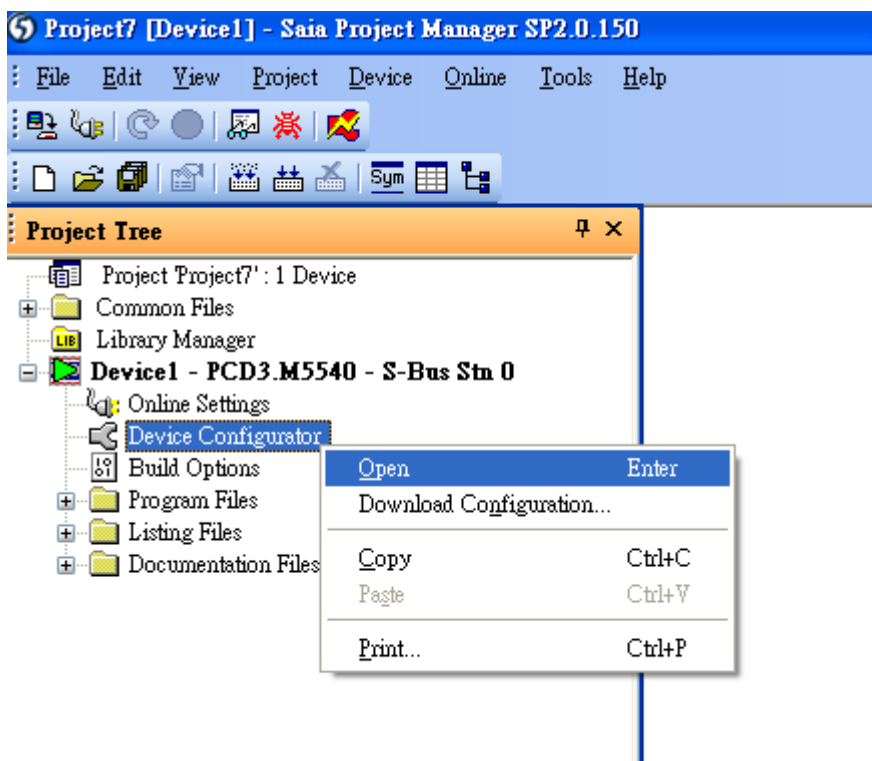
4. Go to "Online Setting".



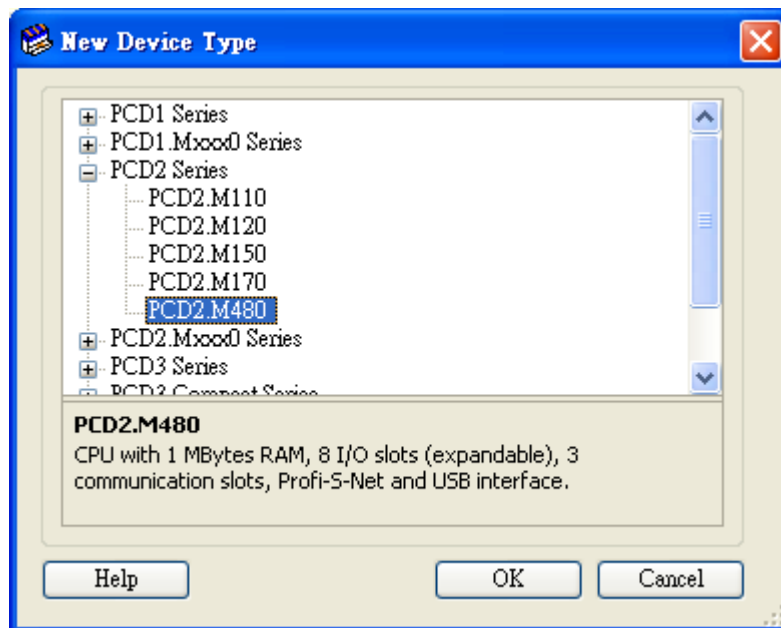
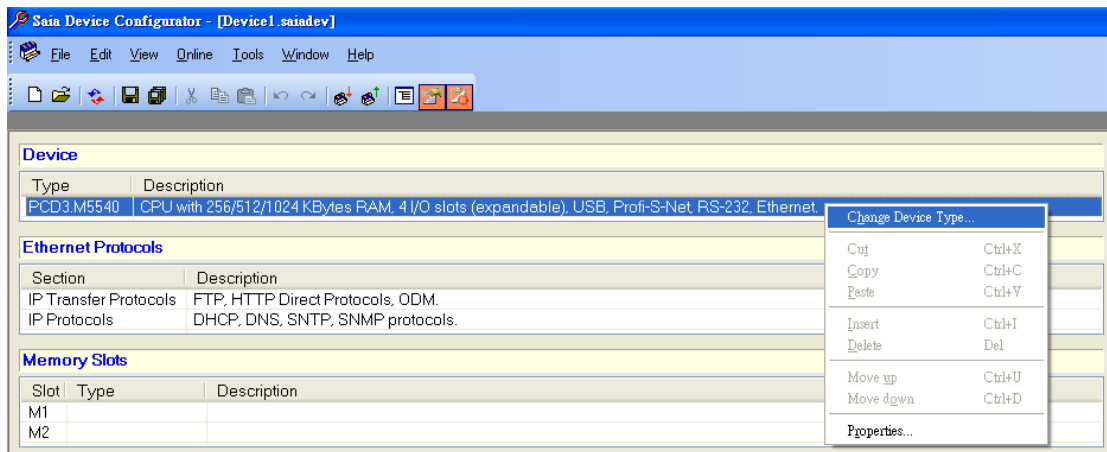
5. Select "PGU".



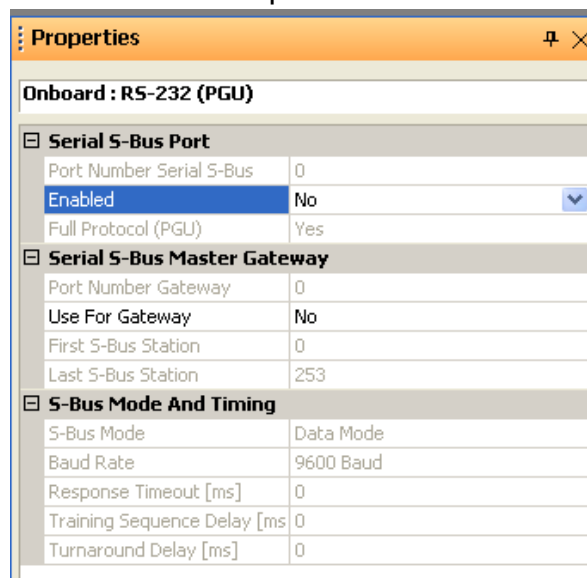
- Go to "Device Configurator".



- Click "Change Device Type" to select your PLC model.



8. Select RS232 (PGU) in Type and then right click mouse on Onboard Communications and select " Properties".



9. Select "Yes" in Series S-Bus Port: Enabled.

Properties

Onboard : RS-232 (PGU)

Serial S-Bus Port

Port Number Serial S-Bus	0
Enabled	Yes
Full Protocol (PGU)	Yes

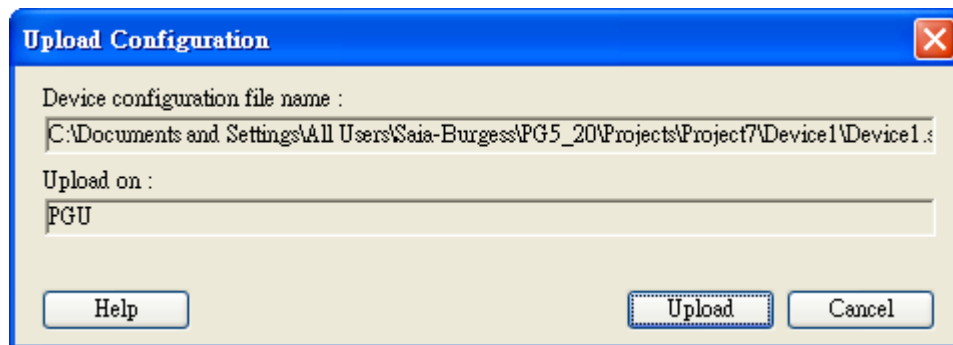
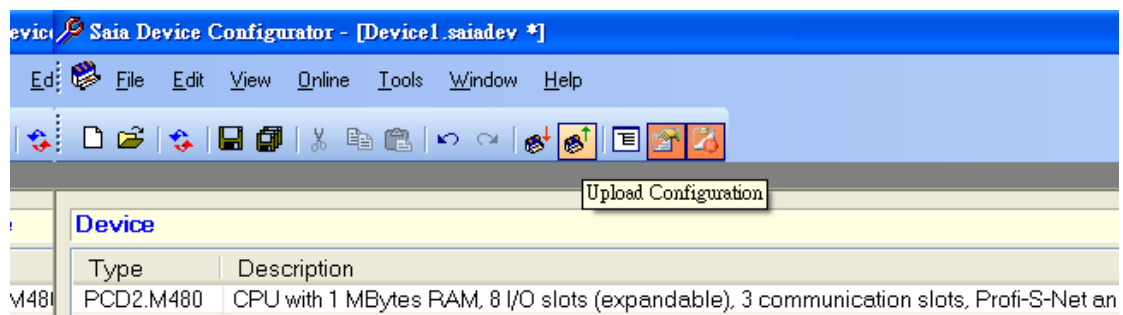
Serial S-Bus Master Gateway

Port Number Gateway	0
Use For Gateway	No
First S-Bus Station	0
Last S-Bus Station	253

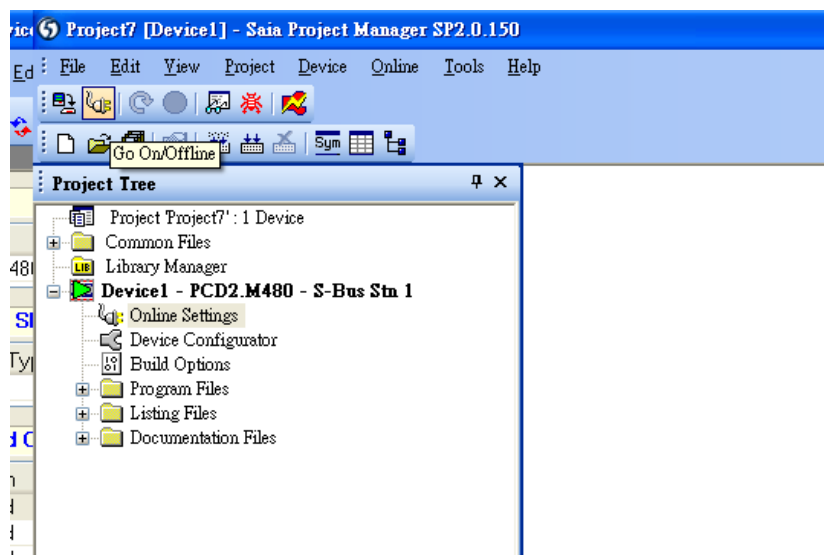
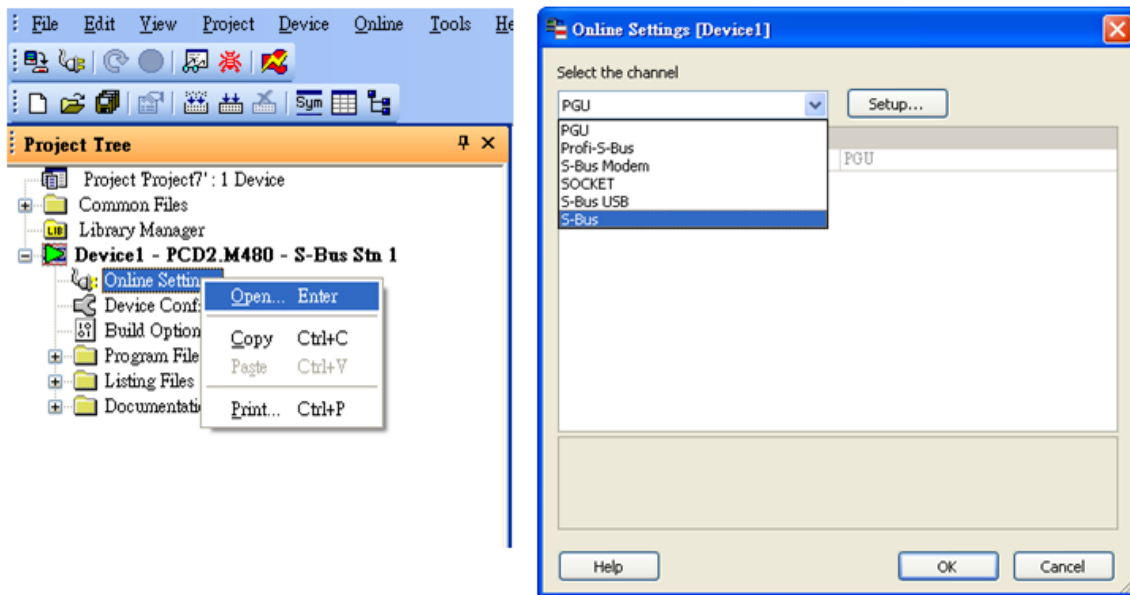
S-Bus Mode And Timing

S-Bus Mode	Data Mode
Baud Rate	9600 Baud
Response Timeout [ms]	0
Training Sequence Delay [ms]	0
Turnaround Delay [ms]	0

10. Set parameters in S-Bus Mode and Timing then upload to PLC.



11. Go to Online Settings >> Open to select S-Bus for finishing the PLC settings.



Device Address:

Bit/Word	Device type	Format	Range	Memo
B	Flag	DDDDD	0 ~ 14335	
B	Output	DDDD	0 ~ 8091	
B	Input	DDDD	0 ~ 8091	
B	Reg_Bit	DDDDdd	0 ~ 1638331	dd: Bit no. (00~31)
B	DBn_Bit	DDDDDDDDDDdd	0 ~ 53601638331	
DW	Register	DDDDD	0 ~ 16383	
DW	Counter	DDDD	0 ~ 1599	
DW	Timer	DDDD	0 ~ 1599	
DW	Reg_Float	DDDDD	0 ~ 16383	support single float point
DW	DBn	DDDDDDDDDD	0 ~ 536016383	

Bit/Word	Device type	Format	Range	Memo
DW	DB_String	DDDDDDDDDD	0 ~ 536016383	
DW	R_String	DDDDD	0~16383	
DW	DB_Float	DDDDDDDDDD	0 ~ 536016383	
DW	Text	DDDDDDDD	0~1638300	

Wiring Diagram:

Diagram 1

RS-232 (SAIA PCD PGU Port RS232 9P D-Sub)

The serial port pin assignments may vary between HMI models, please click the following link for more information.

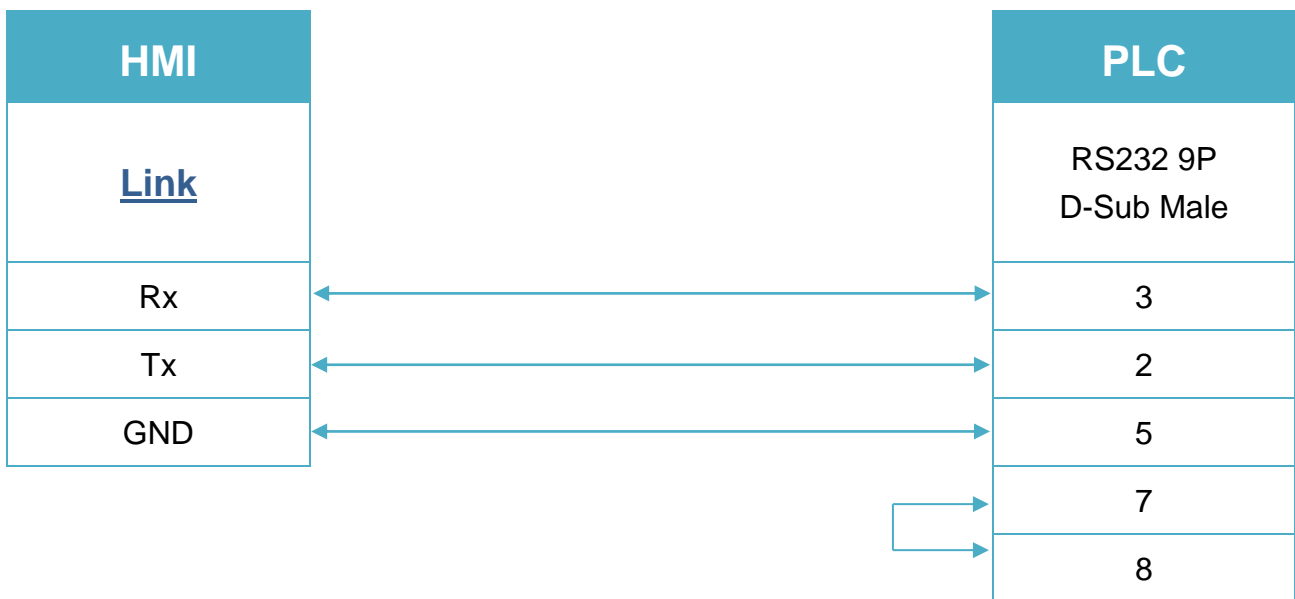


Diagram 2

RS-485 2W (SAIA PCD1 Port #1 (Port #0) Terminal)

The serial port pin assignments may vary between HMI models, please click the following link for more information.

