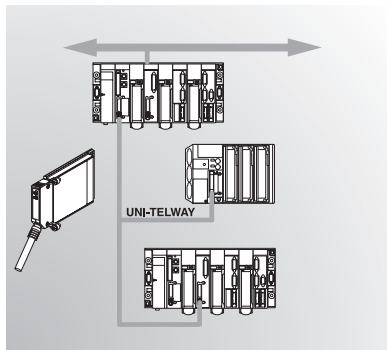
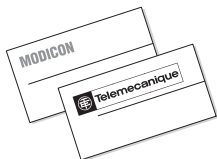


# Micro/Premium PLCs TSX SCP 111/112/114

PCMCIA Communication Cards

Quick Reference Guide  
03 / 2003



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**GRUPE SCHNEIDER**

■ Merlin Gerin ■ Modicon ■ Square D ■ Telemecanique



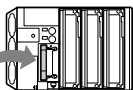
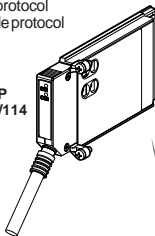
## Presentation

Type III extended PCMCIA cards for connecting TSX Micro and Premium PLCs (TSX 57/PMX57/PCX57) to the communication bus and asynchronous serial links. These cards are installed in the host slot on the processor and/or the TSX SCY 21601 module.

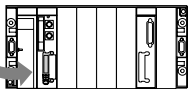
**Protocols which can be used for each card :**

- UNI-TELWAY protocol
- Modbus/Jbus protocol
- Character mode protocol

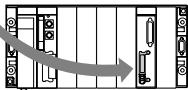
TSX SCP  
111/112/114



TSX Micro



TSX/PMX 57



TSX/PMX 57



PCX 57

**Card references :**

- TSX SCP 111 : RS 232D link
- TSX SCP 112 : current loop link (20 mA)
- TSX SCP 114 : RS 485 link (RS 422-compatible)

## Assembly

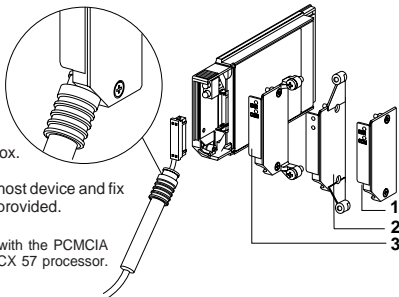
The mechanical configuration of the card must be adapted depending on the type of installation required using one of the removable covers 1, 2 or 3. Covers :

- Cover 3 : for a TSX Micro or TSX/PMX 57 processor or TSX SCY 21601 card
- Cover 2 : for a PCX 57 processor
- Cover 1 : for a PC-compatible device

**⚠ Mounting should always be carried out with the power off.**

**Procedure :**

- Connect the cable on the card.
- Place the cover on the junction box.
- Screw down the cover.
- Insert the card in the slot on the host device and fix it to the device using the screws provided.



Note: Covers 1 and 3 are provided with the PCMCIA card, cover 2 is provided with the PCX 57 processor.

**Connection : Cable References TSX SCP ...**

Card references	Type of link	Character mode		Cable references	
		Point/Point	Modem	UNI-TELWAY	Modbus
TSX SCP 111	RS 232D	CD 1030 CD 1100	CC 1030	CC 1030	CC 1030
TSX SCP 112	BC 20			CX 2030	CX 2030
TSX SCP 114	RS 485		CX 4030	CU 4030 (1) CU 4530 (2)	CM 4030 (1)

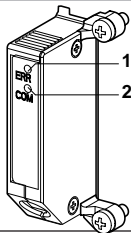
(1) connection to TSX SCA50T-junction box

(2) connection to TSX SCA62T-junction box

**Diagnostics**

There are two diagnostic indicator lamps on the front of the card, which inform the user on the operation of exchanges between the device supporting the PCMCIA card and the connected device.

- The red error indicator **1** (normally off) displays errors
- The yellow communication indicator **2**, COM, displays the line activity



ERR	COM	Meaning	Corrective action
○	○	Device switched off No dialog	Check power supply and connection Card not working
○	●	Normal operation	
●	(1)	Serious error	Change the card
○	○	Operational error	Check the configuration and the communication bus connection
○	○	Operational error	Check the configuration
●	Lamp on	○ Lamp off	○ Lamp flashing

(1) : lamp status not applicable

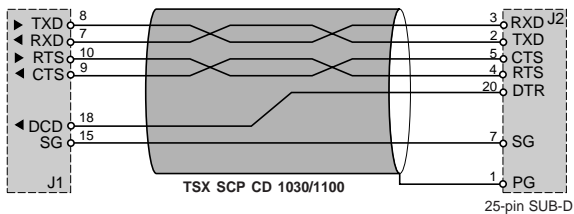
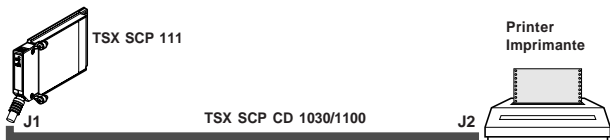
**Power consumption**

Card references	Voltage	Typical current	Maximum current
TSX SCP 111	5V	140 mA	300 mA
TSX SCP 112	5V	120 mA	300 mA
TSX SCP 114	5V	150 mA	300 mA

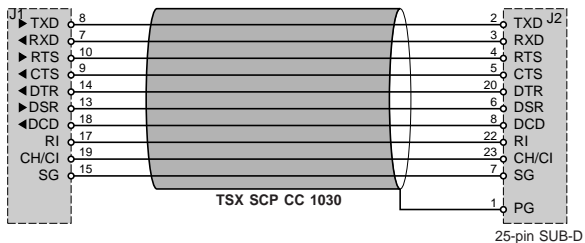
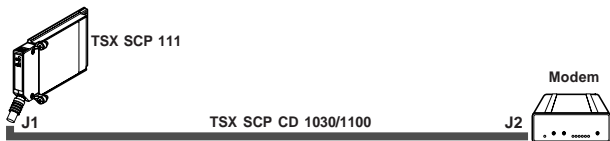
## Connection

- TSX SCP 111 card/Carte TSX SCP 111

- Point-to-point connection in **character mode**

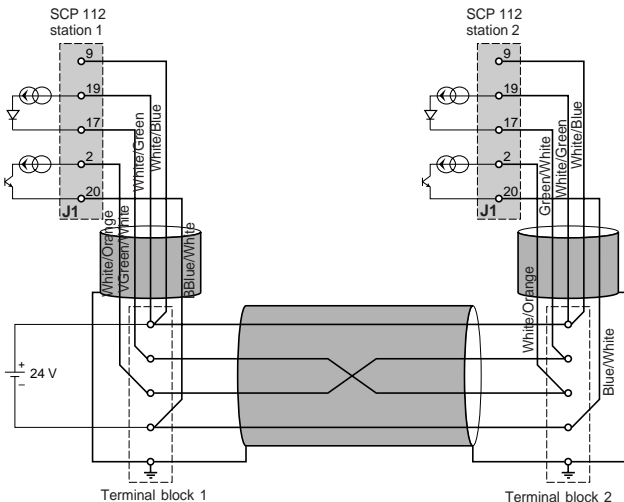
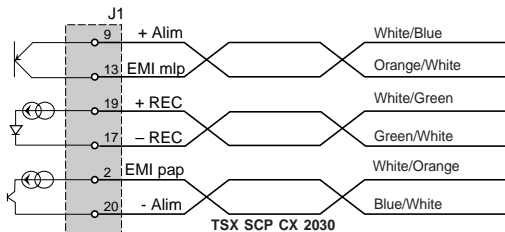


- UNI-TELWAY, Modbus or character mode connection via modem



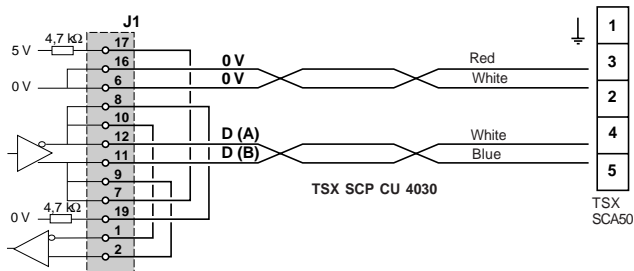
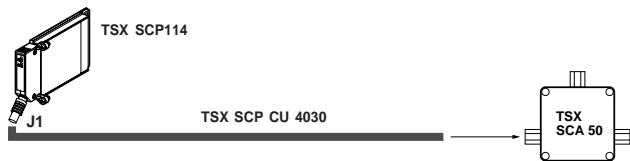
• **TSX SCP 112 card/Carte TSX SCP 112**

- Point-to-point connection: 20mA inactive mode



- TSX SCP 114 card/Carte TSX SCP 114

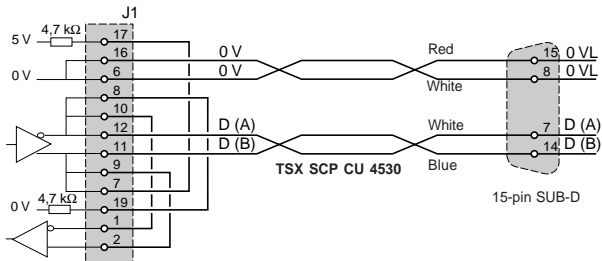
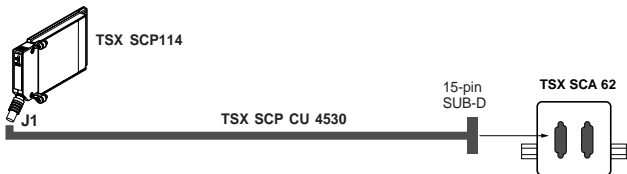
- UNI-TELWAY bus connection via TSX SCA 50T-junction box





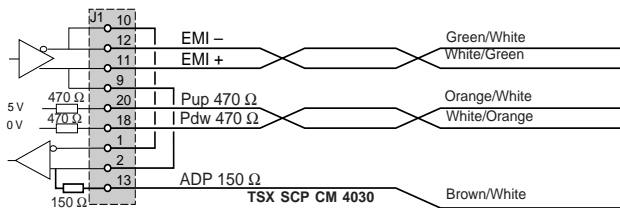
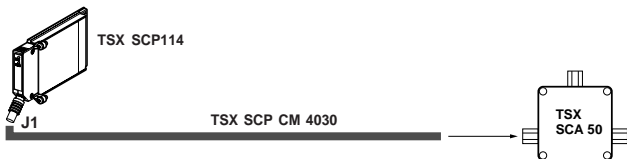
## TSX SCP 114 card/Carte TSX SCP 114

- UNI-TELWAY bus connection via TSX SCA 62 junction box

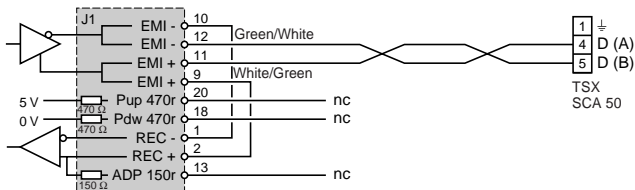


## TSX SCP 114 card/Carte TSX SCP 114

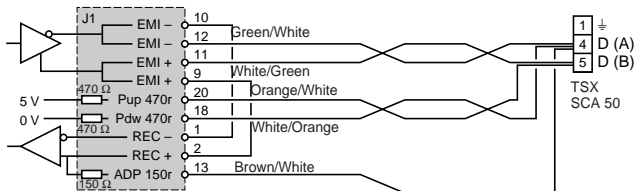
- Modbus/Jbus network connection



## TSX SCA50 T-junction box connection without line terminator



## TSX SCA50 T-junction box connection with line terminator



**TSX SCP 114 card/Carte TSX SCP 114**

- RS 422 multiprotocol asynchronous link connection

