Serial Communication Card (SI-M) Product Note

This instruction manual will be of great help for daily maintenance inspection and troubleshooting.

TEC☉

Version: 01

The general-purpose communication option card (hereinafter called SI-M) can be mounted in the TECO inverter directly.

By using the SI-M computer or sequencers can communicate with inverters with high speed directly. Then the tasks include parameter setting and monitoring could be fulfilled easily.

Features

1. Use the communication mode to run/stop the inverters and the setting of the parameter
   - The computer or the PLC can utilize the communication mode to control the run/stop mode of the inverters and set the operation frequency using MODBUS RTU protocol. It also can set the parameters of the inverter and monitor the output frequency and the output current during running.

2. with various communication interfaces
   - Three interfaces, RS-232, RS-422 and RS-485 are built in the SI-M.

3. 31 units Max. are connectable
   - By use the RS-485 interface, each computer or sequencer can control 31 units.

4.high-speed communication
   - The allowable communication speed is 2400/4800/9600 bps.

5.simultaneous broadcasting
   - The computer or the PLC can send the same operation commands or frequency commands to all the connected masters simultaneously.

Waring

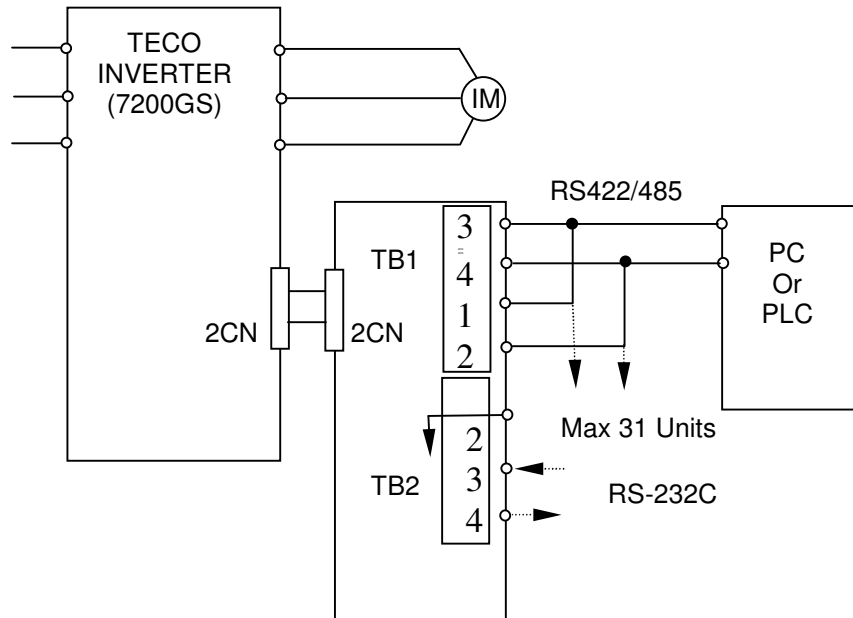When using the SI-M, the AI-14B, DI-08 or other option cards cannot be used at the same time.

Specifications

Hardware Specification

Item	Specification	
Standard	RS-232, RS-422, RS-485(EIA Standard)	
Transmission Type	Multidrop Link	
Proper Models	The computer or the sequencer included the interface of RS-232, RS-422, RS-485.	
Connectable Unit	RS-232	1 unit only
	RS-422	10 units Max.
	RS-485	31 units Max.
Communication Distance	500m Max.	

Communication Specification

Item	Specification	
Communication Speed	2400/4800/9600 bps selectable	
Response Time	2400bps	About 97ms
	4800bps	About 29.5ms
	9600bps	About18.3ms
Synchronization mode	Start-stop Synchronization mode	
Communication mode	Half-Duplex, Full-Duplex	
Protocol	MODBUS RTU	
Stop bit	2 bits	
Parity Check	No Parity	
Error Check	CRC	

Connection

Example