

RS485 MODBUS Card



Compatible with various models of Inverter

OPTI-Solar RS485 MODBUS card is an inverter-monitoring interface. It can be applied to various models of inverters, transmitting data with up to 9600 bits per second.

Compact and easy for installation

OPTI-Solar RS485 MODBUS card is compact and easy for installation into the inverters. The embedded RS485 connector supports 2 sets of RS485 transfer channel for serial connection of inverters, or connect the inverter directly to PC for inverter performance monitoring directly as well.

Features

- Transmission mode with full duplex and half duplex supported.
- RJ11 interface friendly connected.
- Excellent transmission quality 9600bps.
- Flexible registered setting.

OPTI-Solar RS485 MODBUS card connected

When wiring OPTI-Solar RS485 MODBUS card from inverter to inverter, we connect the RS485 pins of the same assignment (signal) together. That is, we connect the Receive Pin to Receive Pin, and Transmit Pin to Transmit Pin. However, when wiring OPTI-Solar RS485 MODBUS card from Inverter to Converter, we connect the RS485 pins of the opposite assignment (signal) together. That is, we connect the Receive Pin to Transmit Pin, and Transmit Pin to Receive Pin.

Specifications

MODEL		OPTI-Solar RS485 MODBUS Card
Output	Transmission mode & Baud Rate	full duplex or half duplex; 9600 bps, compatible with all inverters
	Golden Finger	1x4 pin golden edge interface for 2 sets of RS485 transfer: Data Transfer Mode: RS485, full duplex or half Data Transfer Rate: 9600 bps Configuration compatibility: Compatible with all inverters
	Cables for connection	2 x twisted-pair shielded cables for full duplex RS485; 1 x twisted-pair shielded cables for half duplex RS485; Max. applicable length from card to card or device : 1200M(4000ft) (The maximum length can be applicable only under very low EMC and with proper cable)
Physical	Net Weight Kg (g)	55
	Dimension (mm) WxDxH	68 x 42 x 132
Interface (Free software)	Connector	1x8 pin connector for 2 sets of RS485 transfer configuration: Set TB1 Pin assignment: T+, T-, R+, R- Set TB2 Pin assignment: T+, T-, R+, R-
Environment	Ambient Operation	Environment Ambient Operation 3,500 meters max. elevation, 0-95% humidity non-condensing, -25-55° C
	Audible Noise	<30dBA (1 meter from surface)