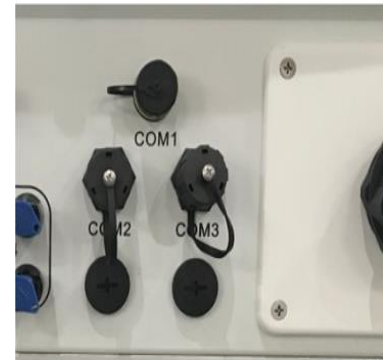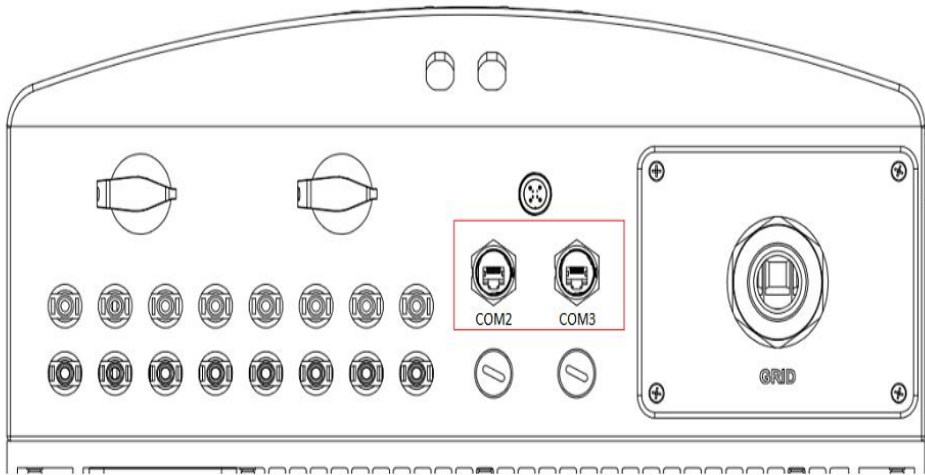# TRACKSO CONNECTION MANUAL FOR POLYCAB INVERTERS

Brand: Polycab
Type: Solar On Grid String Inverter
Models: PSIS-1K, PSIS-1.5K, PSIS-2K, PSIS-3K, PSIS-4K, PSIS-5K, PSIT-6K, PSIT-10K, PSIT-15K, PSIT-20K, PSIT-25K, PSIT-36K, PSIT-40K

CONNECTION DIAGRAM

The below diagram shows communication interface which is located at the bottom of the inverter.

Figure P1 –Sample Photo of Bottom of the Polycab Inverter for Connections

Connection Procedure

1. Please unscrew the RS485 terminal (communication port) as shown in Figure P1.

2. Please make the connections from the Inverter RS485 port to TrackSo IoT Gateway as per Method-1 or Method-2 mentioned (Pictures available on next page)
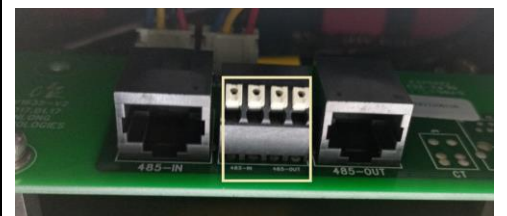
|	
a. **Method-1** -Applicable for all Polycab Inverters having RS485 communication output on LAN type RJ45 port Insert one side of a LAN wire in RJ45 port of Inverter, on other side Short 1st and 4th wire and connect to Data+ pin on TrackSo and short 2nd and 5th Wire and connect to Data- pin on TrackSo	
b. **Method-2**- Applicable for 5G series Polycab Inverters having RS485 communication output on 2pin type connector. Connect Pin A of Inverter to Data+ on TrackSo and connect Pin B of inverter to Data- on TrackSo	

Method-1 -Applicable for all Polycab Inverters having RS485 communication output on LAN type / RJ45 port

- Insert one side of a LAN wire in RJ45 port of Inverter, on other side Short 1st and 4th wire and connect to Data+ pin on TrackSo and short 2nd and 5th Wire and connect to Data- pin on TrackSo

| Polycab RJ45 Connector	Polycab Pin No. & Assignment		TrackSo Pin No. & Assignment	
COM2	1 & 4	RS485A	3	D+
	2 & 5	RS485B	4	D-
COM3	1 & 4	RS485A	Used for Daisy Chain Connections	
	2 & 5	RS485B		

Table PT1 –Polycab RJ45 type port connections with TrackSo IoT Gateway
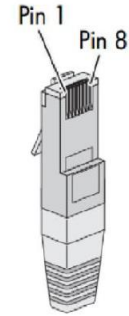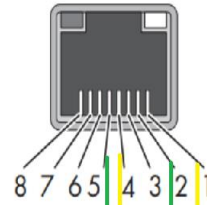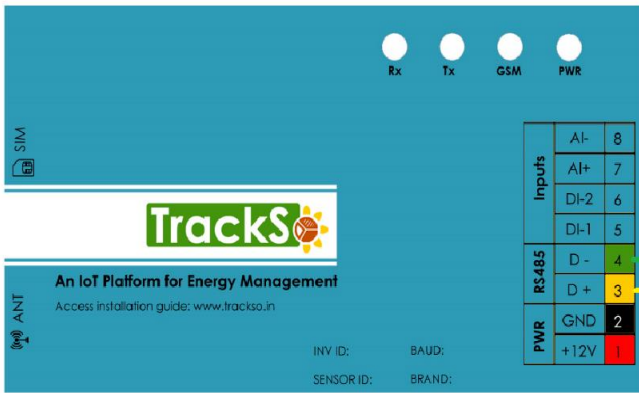
Pin 1 with 4 and 2 with 5 are used for communication connection
Pin 1 and 4 are connected with RS485+A
Pin 2 and 5 are connected with RS485 - B

Multiple Inverter Connections

If multiple Inverters are to be connected then connect all Inv in daisy chain mode over the RS485 communication cable. Set different Modbus address (1~256) for each inverter in LCD display.
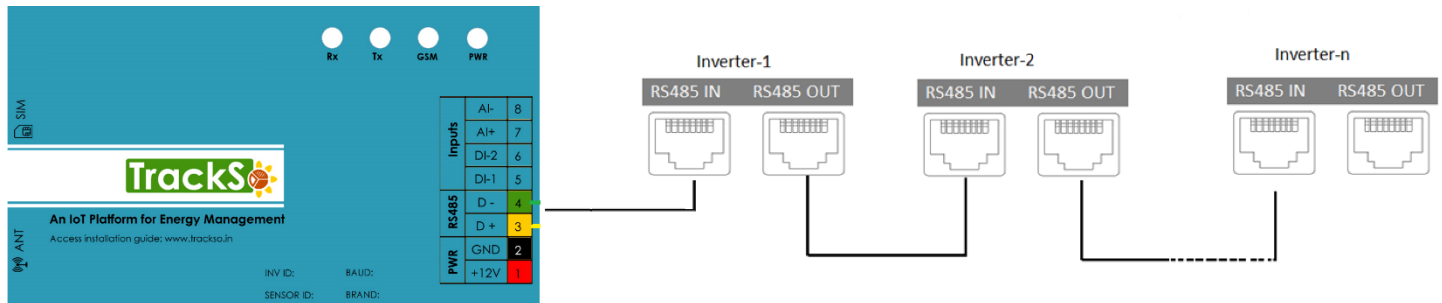
Note: Ensure to use a 120ohm Modbus Terminator at the end of the network, for proper communication

Method-2 - *Applicable for 5G series Polycab Inverters having RS485 communication output on 2pin type connector.*

- Connect Pin A of Inverter to Data+ on TrackSo and connect Pin B of inverter to Data- on TrackSo

Polycab Pin No. & Assignment			TrackSo Pin No. & Assignment	
RS485 IN	A / 1	RS485A	3	D+
	B / 2	RS485B	4	D-
RS485 Out	A / 3	RS485A	Used for Daisy Chain Connections	
	B / 4	RS485B		

Table PT2 –Polycab Inverter connections with TrackSo IoT Gateway

Multiple Inverter Connections

If multiple Inverters are to be connected then connect all Inv in daisy chain mode over theRS485 communication cable. Set different Modbus address(1~256) for each inverter in LCD display.
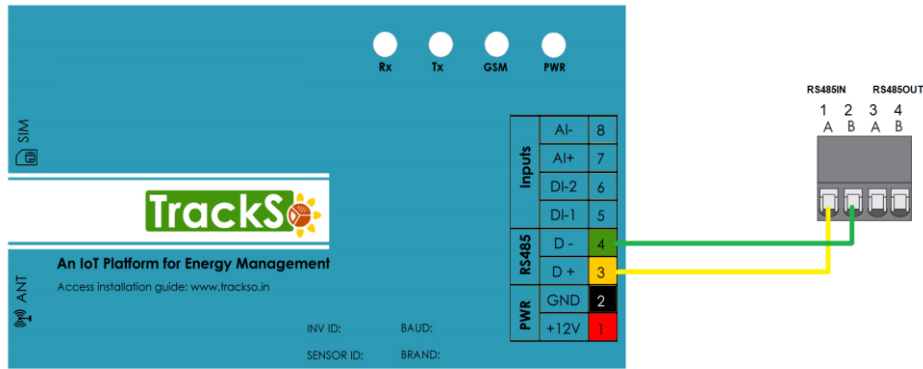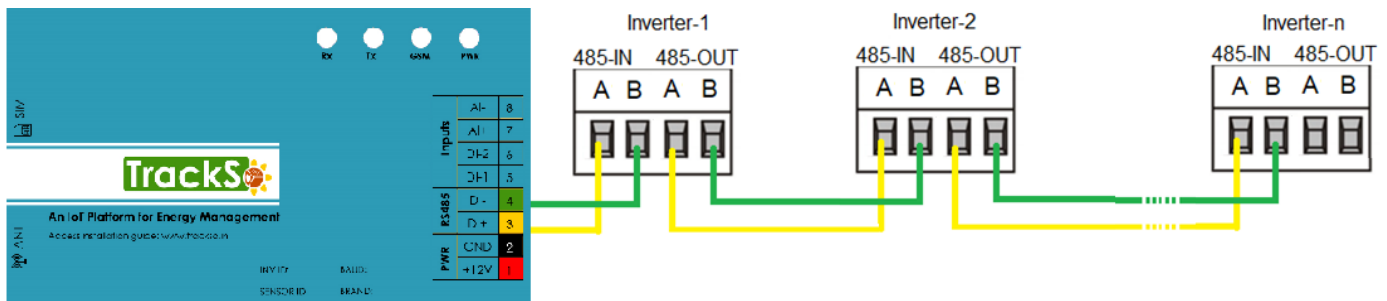

Note: Ensure to use a 120ohm Modbus Terminator at the end of 1the network, for proper communication

Inverter ID: **1, 2, 3, 4 ….** Continuous numbering starting with 1, **(Range:** 1 to 247)
Baud Rate: **9600 (Default)**
Data Bits: 8, Stop Bit: 1, Parity: None

CONFIGURATION AT THE INVERTER END

SETTING THE INVERTER ID

← Set correct Inverter Ids

Main Menu   Setting   Address setting

SETTING THE BAUD RATE

Default baud rate of Inv : 9600bps

If you connect multiple inverters via RS485, set the same baud rate on each inverter.

Kindly note Polycab Inverters are by default available at 9600bps and does not provide any option to change baud rate.

SET DATE & TIME OF INVERTER

← Set the Correct Date & Time

For a precise calculation of the statistics in the inverter itself and in a monitoring system, date and time have to be correct.