

# TRACKSO INSTALLATION GUIDE FOR INGETEAM INVERTET

**Brand:** Ingeteam  
**Type:** Solar On Grid String Inverter  
**Models:** Ingecon Sun Lite 2.5 TL, 2.5, 3 TL, 3.3, 3.3 TL, 3.68 TL, 3.8 TL, 4.6 TL, 5, 5 TL, 6 TL

## CONNECTION DIAGRAM

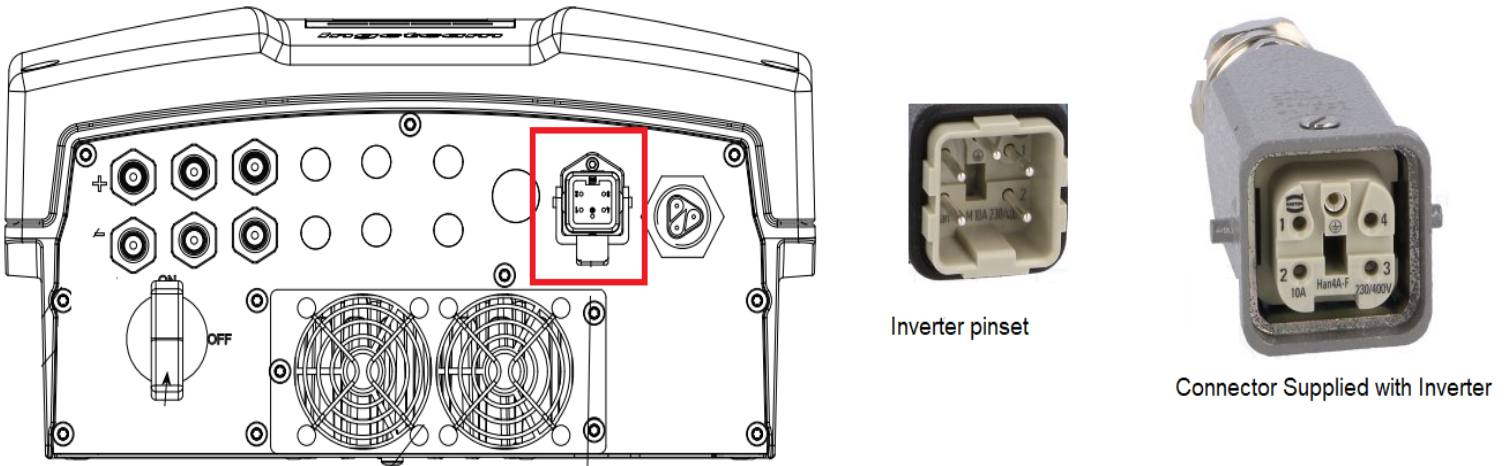


Figure 11 – Ingeteam String Inverter Connections

### Connection Steps

1. This type of inverter requires a special connector available from INGETEAM. The connector is of the Harting type
2. The RS485 communication board is already wired to the Harting HAN 4A female connector, simply plug in a male connector of the same type
3. Please make the connections from the Harting HAN 4A male connector of Ingeteam RS485 chip to TrackSo IoT Gateway as mentioned in the Table – T1.
4. Please provide 12V external supply to TrackSo IoT Gateway via 12V, 2A DC adaptor provided in the package.

For connecting multiple inverters A 120Ω resistor (supplied by INGETEAM) must be connected between pins 1 and 2 of the Harting connector.

Ingeteam Pin No. & Assignment		TrackSo Pin No. & Assignment	
1	RS485+	3	RS485+
2	RS485-	4	RS485-

Table T1 – Ingeteam RS485 chip connections with TrackSo IoT Gateway

Category	Pin No.	Assignment
Inputs	8	AI-
	7	AI+
	6	DI-2
	5	DI-1
RS485	4	D -
	3	D +
PWR	2	GND
	1	+12V

RED - Data +  
 Black - Data-

**GPRS Enabled IoT Gateway for Remote Management**

## DEFAULT CONFIGURATION IN TRACKSO IOT GATEWAY

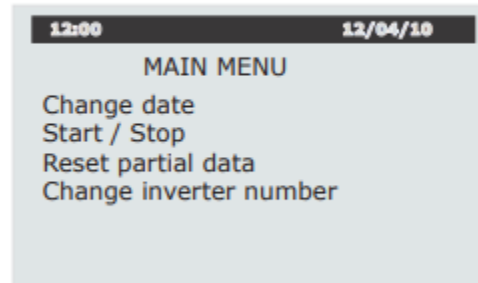
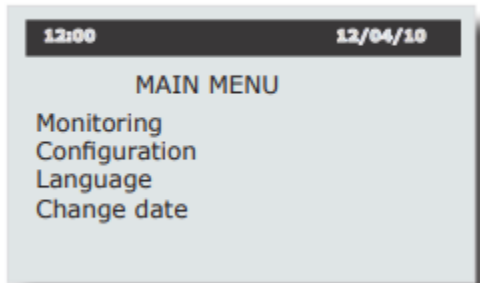
Inverter ID: **1** (Range: 1 to 247)

Baud Rate: 9600 (Values: 9600, 19200, 38400)

Data Bits: 8 , Stop Bit: 1, Parity: N/A (None)

## CONFIGURATION AT THE INVERTER END

The main menu contains the following submenus:





## SETTING THE BAUD RATE

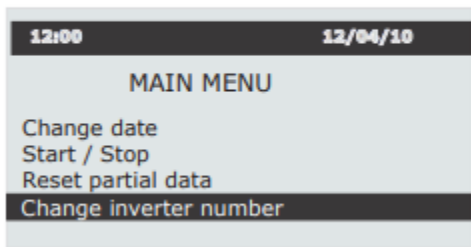
The communication speed of this inverter cannot be changed by the user, and thus it is a standard parameter that does not affect communications between TrackSo and the INGETEAM INGECON SUN inverter

## SETTING THE INVERTER ID

From this menu you can assign the inverter a number. This is required for configuring communications.

With keys  and  you can change the inverter number.

Press  to confirm the number selected.



1. To change the inverter peripheral number, go to the "Change inv. number" option on the main menu:
2. Press "OK" to enter the "Change inv. number" menu
3. Use the arrow buttons to program number "001" and press "OK" to confirm.
4. The message appears on the display:
  - a. Save (OK)
  - b. Cancel (ESC)
5. Press the "OK" button to save
6. The message appears on the display:
  - a. Finished OK
  - b. Exit (ESC)
7. Press the "ESC" button three times to return to the home screen