TRACKSO INSTALLATION GUIDE FOR SOLAX INVERTERS

Brand:SolaxType:Solar On Grid String InverterModels:ZDNY-TL 10000, ZDNY-TL 12000, ZDNY-TL 15000, ZDNY-TL 17000, ZDNY-TL 20000

CONNECTION DIAGRAM

The below diagram shows the front view of the communication interface

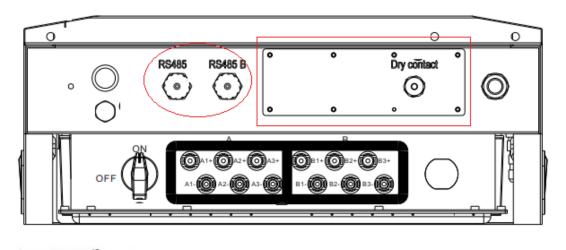
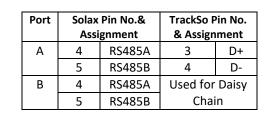


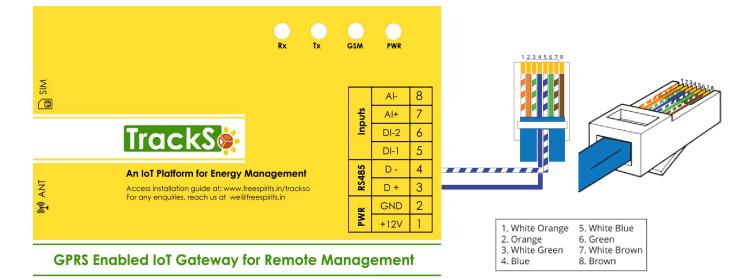


Figure S1 – Solax String Inverter Connections

Connection Steps

- **1.** Please insert the Lan Cable in RJ45 port of the inverter and check the communication interface as shown in *Figure S1*.
- 2. Please turn off all DIP Switch (Upside).
- **3.** Cut the LAN Cable on other side
- 4. Connect the wire from PIN 4 of LAN Port to Data+ & from PIN 5 to Data-



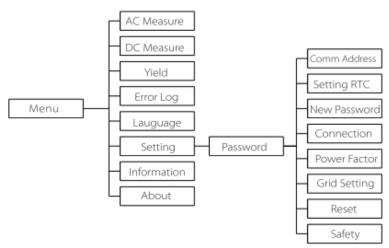


DEFAULT CONFIGURATION IN TRACKSO IOT GATEWAY

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

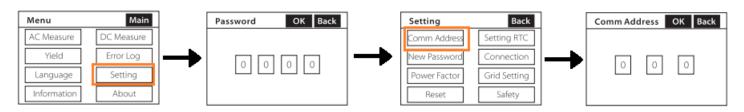
Menu structure



SETTING THE INVERTER ID

The inverter ID is used to identify the inverter in a RS485 connection

- Set a different inverter ID for each inverter in the PV plant. Otherwise, the inverters cannot be correctly identified.
- On the last inverter in the RS485 connection, switch on the RS485 termination resistor.



← Set correct Inverter Ids

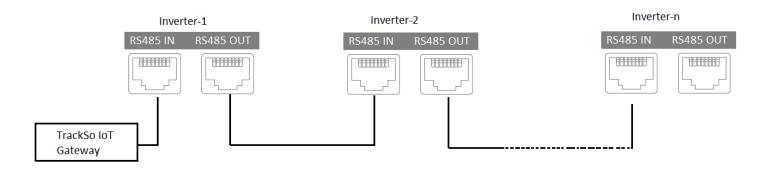
SET DATE & TIME OF INVERTER

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

Menu	Main]	Password	OK Back		Setting	Back]	Setting RTC	OK Ba
AC Measure	DC Measure					Comm Address	Setting RTC		Year-Month-	Day
Yield	Error Log	→		0 0 0	\rightarrow	New Password	Connection	\rightarrow	2014 - 03 - 12	12
Language	Setting	· ·				Power Factor	Grid Setting		Hour-Minute 04 : 34 : 54	e-Second
Information	About					Reset	Safety		0.101.01	

← Set the Correct Date & Time

Multiple Inverters



NOTE: The above details are mentioned in the *Installation & Operation Manual* for Solax Inverter on *Page 104.*

TRACKSO WORKING

- 1. Insure correct connections as detailed in the installation guide.
- 2. Insert the SIM card.

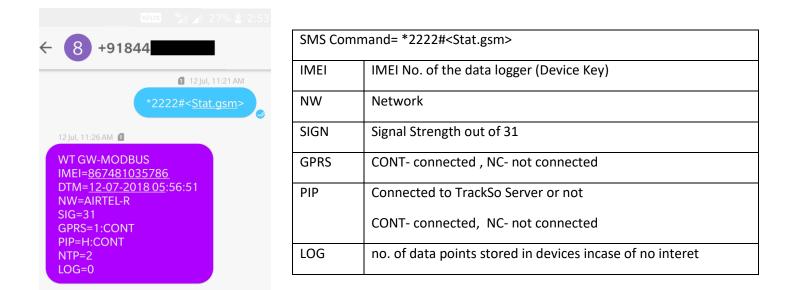


- 3. Switch on the power to the TrackSo device. (Minimum 12V/1A input is required)
- 4. Power LED (Red) of TrackSo IoT gateway glows and stays ON.

NOTE: TrackSo IoT Gateway will only be able to send data if the GPRS network is available at the installed location.

LED	NAME	DESCRIPTION						
GREEN	POWER	Light when Power on the device						
		LED Status	Connection State					
RED	GSM	Flashing (ON for 100ms and OFF for 100ms) Flashing (ON for 500ms and OFF for 500ms) Flashing (ON for 0.1s and OFF for 2.9s)	SIM Card not found Searching for GSM Network					
		Once at every 3sec	GSM Network Registered					
		Flashing twice at every 3sec	GPRS IP Connected					
		Flashing 5times	GPRS IP Sending data					
		LED OFF	GSM Fault					
GREEN	COM TX	Blink on data transmission in RS485 port						
YELLOW	COM RX							

5. To check the exact network status send the following message to mobile number of the device



- 6. If the GSM light starts flashing 5 times then Login to <u>www.trackso.in</u> with your Username/Password.
- 7. Click on 'Units' from the menu bar. You will be able to view your installed unit in the table as shown below.
- 8. Check if the *Status* becomes **Receiveing** for the relevant Unit.

T	rackS	*	Mashups	Sites	Units	Rules	Notifications				
	Home / Units										
	🗘 Units									A	dd Unit
	Show 10 🔻									Search	ı for
	Unit Name 🖨	Site	Unit Key 🖨	Category	Data Status Last Event Timestam		np Device Key Device Pho		e Actions		
	1-Schnieder	I	t cc	Inverter	Receiving	2018-07-16 02:24:04	B1034235444/1	9	View Data	Ø	Û
	2-Schneider	1	7799	Inverter	Receiving	2018-07-16 02:24:05	034235444/2	9070001179	View Data	Ø	Û
		School	5	Inverter	Not Receiving			в	View Data	Ø	Û
		chool	664.00 5	Inverter	Not Receiving				View Data	Ø	Û

9. If the state remains Not receiveing for more than 10 minutes, click on your email ID at the top right of the screen and click on 'Event Ingestion Logs' in the dropdown.

TrackS		Mashups	Sites	Units	Rules	Notifications		re.com *	•
Home / Event Inge	stion Lo	gs						Users Roles	
Event Inges	tion l	₋ogs					ſ	 P Derived Parameters Event Ingestion Log 	
Show 10 🔻							Sea	 API keys I € Logout 	
Timestamp	stamp Message						code		
2018-07-16 02:42:16	Invalio	Invalid request. Event should contain data. { "events": [{ "timestamp": 1531689133, "unit_key": "84f8b12c", "data": { } }] }							
2018-07-16 02:41:13	Invalio	Invalid request. Event should contain data. { "events": [{ "timestamp": 1531689070, "unit_key": "84f8b12c", "data": { } }] }						not_acceptable	
2018-07-16 02:40:10	-07-16 02:40:10 Invalid request. Event should contain data. { "events": [{ "timestamp": 1531689007, "unit_key": "84f8b12c", "data": { } }] }						not_acceptable		

10. Check if there is some log generated at the time of installation of the TrackSo IoT Gateway device.

- a. If **NO**, please restart the device and try the same flow again.
- b. If **YES**, email us at <u>we@freespirits.in</u> to consult the same.