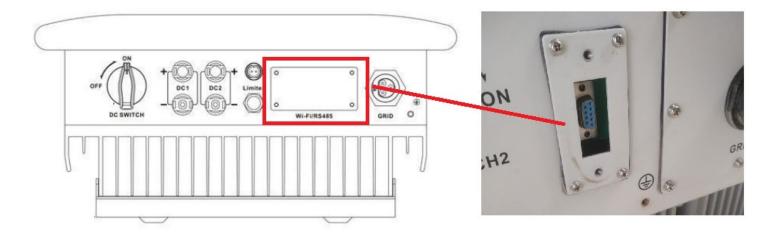
TRACKSO INSTALLATION GUIDE FOR KSOLARE INVERTERS

Brand: KSOLARE

Type: Solar On-Grid String Inverter

Models: 1KW-3.2KW, KSY 4.2KW-6.2KW, KSY 5KW-12KW with RS232 Type Output

CONNECTION DIAGRAM



Figurel K1 – KSolare Communication Board

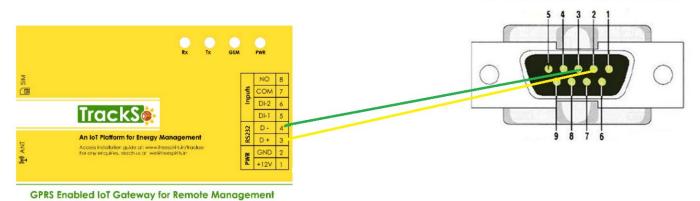
Connection Steps:

- This type of inverter requires a DB9 Male connector. <u>Link</u>
 (To be purchased seperately)
- 2. Plug in DB9 male connector in the Inverter
- 3. Please make the connections from the connector RS232 of Ksolare Inv 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.

Ksolare DB9 Pin No. & Assignment		TrackSo Pin No. & Assignment	
2	RX	3	RS485+
3	TX	4	RS485-

<u>Table K2 – KSolare RS232 chip connections with TrackSo</u> <u>IoT Gateway</u>

DB9 Serial port interface define



DEFAULT CONFIGURATION IN TRACKSO IOT GATEWAY

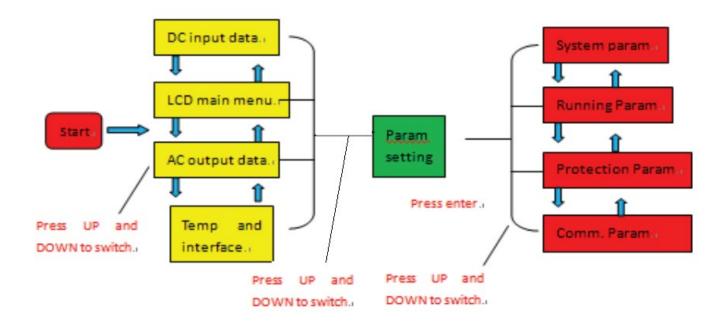
Inverter ID: 1, 2, 3, 4 Continuous numbering starting with 1, (Range: 1 to 247)

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

Data Bits: 8, Stop Bit: 1, Parity: None

CONFIGURATION AT THE INVERTER END

Following is the Inverter interface which we will be accessing to completed inverter settings



SETTING THE BAUD RATE

The communication baud rate is to be set at 9600 bit/s

Menu >> Setup >> Comm Param > BaudRate



SETTING THE INVERTER ID

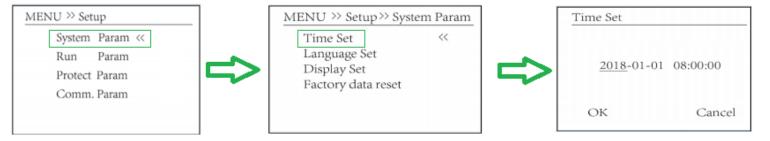
The inverter ID is used to identify the inverter in a RS232/RS485 connection

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.

SETTING THE 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.

Menu >> Setup >> System Param >Time Set



The above details are mentioned in the Installation & Operation Manual for Ksolare Inverters

TRACKSO WORKING

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

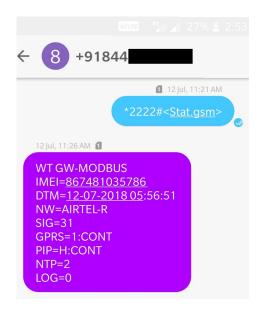


- 3. Switch on the power to the TrackSo device. (Minimum 12V/1A input is required)
- 4. Power LED (Red) of TrackSo IoT gateway glows and stays ON.

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

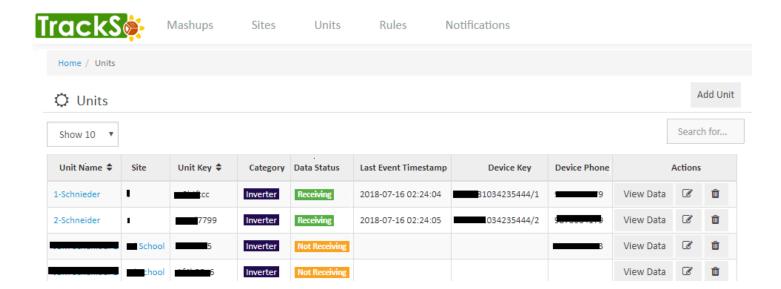
LED	NAME	DESCRIPTION	
GREEN	POWER	Light when Power on the device	
		LED Status	Connection State
		Flashing (ON for 100ms and OFF for 100ms) Flashing (ON for 500ms and OFF for 500ms)	SIM Card not found Searching for GSM Network
RED	GSM	Flashing (ON for 0.1s and OFF for 2.9s) Once at every 3sec	GSM Network 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	Blink on data reception in RS485 port	

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

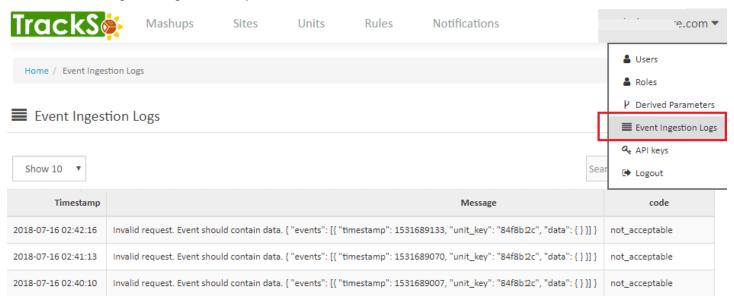


SMS Command= *2222# <stat.gsm></stat.gsm>		
IMEI	IMEI No. of the data logger (Device Key)	
NW	Network	
SIGN	Signal Strength out of 31	
GPRS	CONT- connected , NC- not connected	
PIP	Connected to TrackSo Server or not	
	CONT- connected, NC- not connected	
LOG	no. of data points stored in devices incase of no interet	

- 6. If the GSM light starts flashing 5 times then Login to www.trackso.in 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.



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.



- 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 support@trackso.in to consult the same.