TRACKSO INSTALLATION GUIDE FOR ELECTROWER INVERTERS

Brand: Electrower
Type: Solar Off-Grid String Inverter
Models: VIRAJ , VIRAJ + and Continuo Series with RS232 Type Output

CONNECTION DIAGRAM

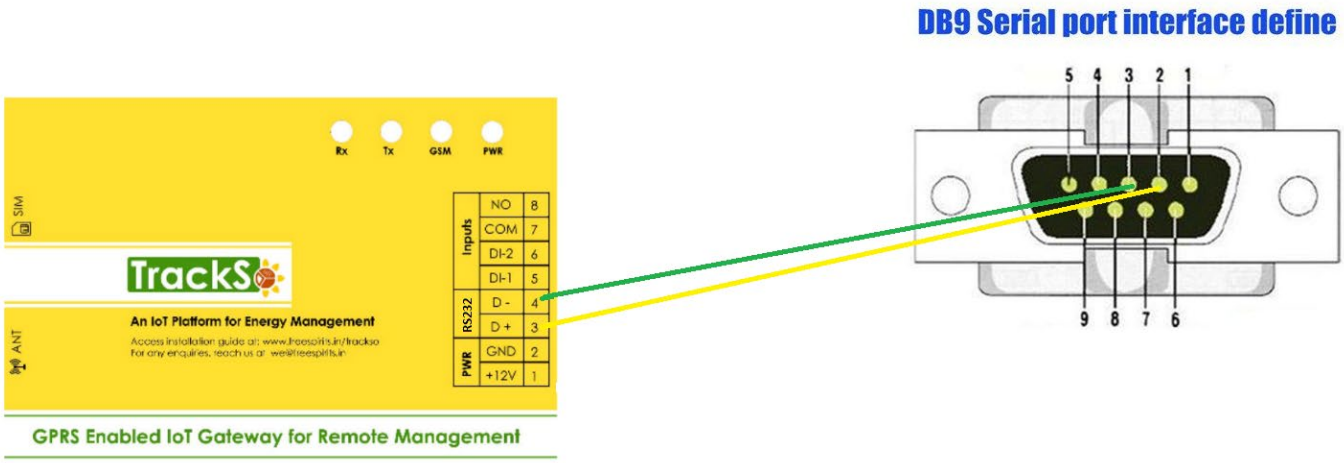
Figure1 E1 – Electrower Communication Board

Connection Steps:

1. This type of inverter requires a DB9 Male connector. Link
2. Plug in DB9 male connector in the Inverter
3. Please make the connections from the connector RS232 of Electrower Inv to TrackSo Datalogger 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.

Electrower DB9 Pin No. & Assignment		TrackSo Pin No. & Assignment	
2	RX	3	RS485+
3	TX	4	RS485-
5	Gnd	2	Gnd

Table E2 – Electrower RS232 chip connections with TrackSo IoT Gateway



DEFAULT CONFIGURATION IN TRACKSO IOT GATEWAY

Inverter ID: 7 (VIRAJ Series) , 10 (VIRAJ+ Series)
Baud Rate: 9600
Data Bits: 8 , Stop Bit: 1 , Parity: None

CONFIGURATION AT THE INVERTER END

SETTING THE BAUD RATE

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

SETTING THE INVERTER ID

The inverter ID is used to identify the inverter in a RS232 connection. Set Id of the Inverter to 1

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.

TRACKSO WORKING

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

Push Yellow Nob

Pull the SIM Tray

Place the SIM card In tray Inside

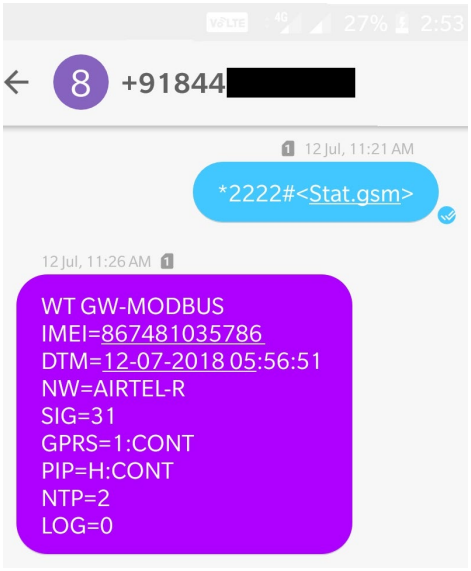
Place the SIM Tray in SLOT and Push the Tray

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.

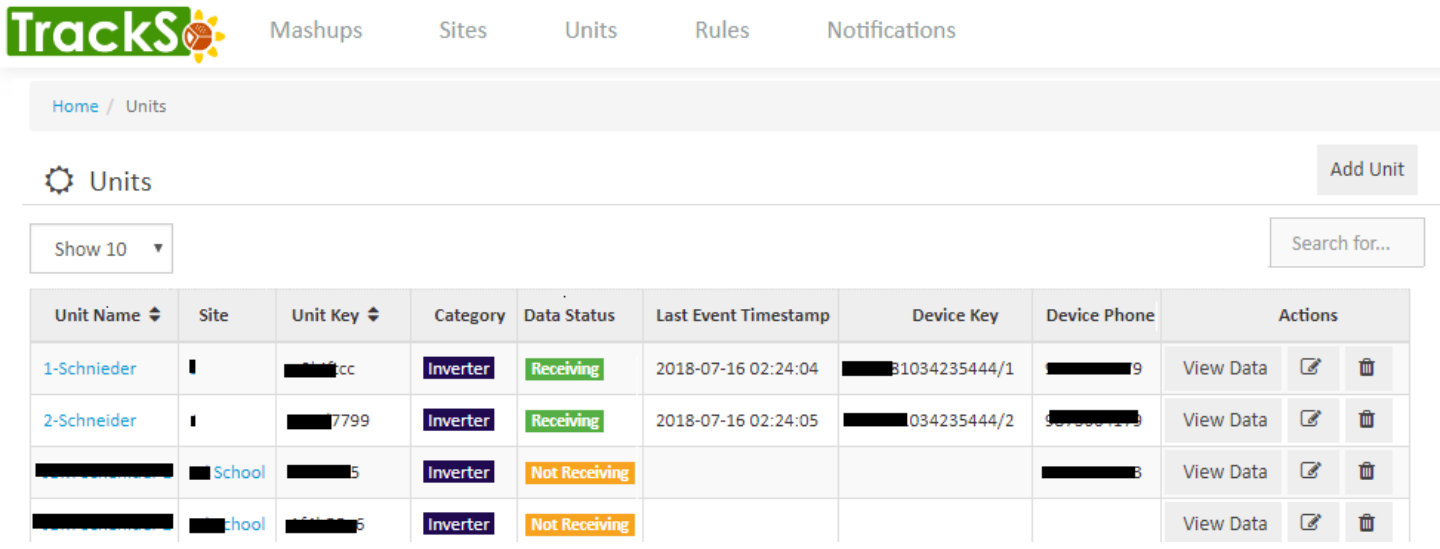
<table>
<tr><th>LED</th><th>NAME</th><th>DESCRIPTION</th></tr>
<tr><td>GREEN</td><td>POWER</td><td>Light when Power on the device</td></tr>
<tr><td rowspan="7">RED</td><td rowspan="7">GSM</td><td>
<table>
<tr><th>LED Status</th><th>Connection State</th></tr>
<tr><td>Flashing (ON for 100ms and OFF for 100ms)</td><td>SIM Card not found</td></tr>
<tr><td>Flashing (ON for 500ms and OFF for 500ms)</td><td>Searching for GSM Network</td></tr>
<tr><td>Flashing (ON for 0.1s and OFF for 2.9s) Once at every 3sec</td><td>GSM Network Registered</td></tr>
<tr><td>Flashing twice at every 3sec</td><td>GPRS IP Connected</td></tr>
<tr><td>Flashing 5times</td><td>GPRS IP Sending data</td></tr>
<tr><td>LED OFF</td><td>GSM Fault</td></tr>
</table>
</td></tr>
<tr><td>GREEN</td><td>COM TX</td><td>Blink on data transmission in RS485 port</td></tr>
<tr><td>YELLOW</td><td>COM RX</td><td>Blink on data reception in RS485 port</td></tr>
</table>

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

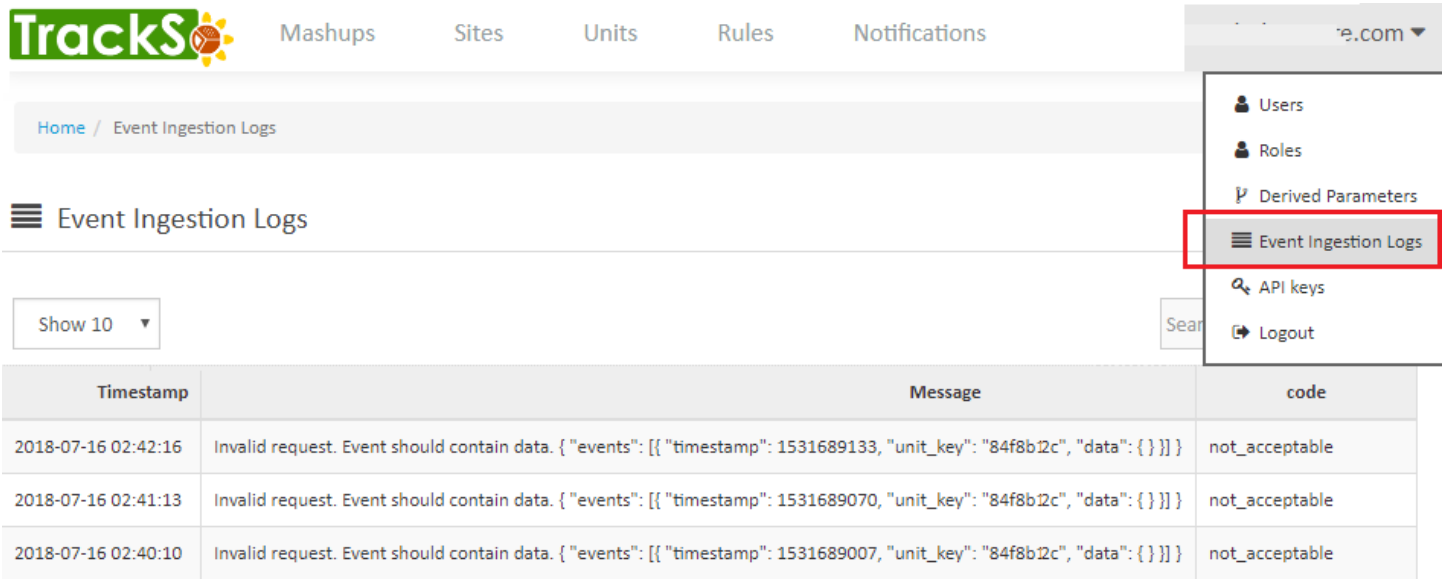


SMS Command= *2222#<Stat.gsm>	
IMEI	IMEI No. of the data logger (Device Key)
NW	Network
SIGN	Signal Strength out of 31
GPRS	CONT- connected , NC- not connected
PIP	Connected to TrackSo Server or not CONT- connected, NC- not connected
LOG	no. of data points stored in devices incase of no interet

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.