TRACKSO INSTALLATION GUIDE FOR SECURE METER

Brand:SecureType:Multi-line Digital Display Panel MeterModels:Elite 440

CONNECTION DIAGRAM

On the rear panel, Secure Elite 440 has an RS-485 communication socket as shown in the following figure.



Figure S1 – Rear view of Secure Elite 440

- 1. Please unscrew the RS485 terminal as shown in *Figure S1*.
- 2. Connect the cables to the RS485 bus terminal blocks.
- 3. Please make the connections from Terminal Block chip to TrackSo IoT Gateway as mentioned in the Table ST1.

Se	cure Pin No. &	TrackSo Pin No. &			
Assignment		Assignment			
1	А	3	D+		
2	В	4	D-		
3	SG	-	-		

<u>Table ST1 – Secure RS485 chip connections</u> <u>with TrackSo IoT Gateway</u>

DEFAULT CONFIGURATION IN TRACKSO IOT GATEWAY

Inverter ID: **1 (Range:** 1 to 247) Baud Rate: **9600 (Default) (Values:** 9600, 19200, 38400) Data Bits: 8 Stop Bit: 1 Parity: N/A (None)

CONFIGURATION AT THE METER END

The Setup Mode can be used to configure the meter with the help of push buttons: The Setup Mode is password protected which can be accessed only by users authorized to change the configurations

Password Entry

The following steps will guide you to access the Setup Menu:



From the default display mode, simply press button once to access the following Setup Mode page.

In the above display page, when the selection bar ' - ightarrow ' is on the 'Set Up' option, press

button to confirm the selection of Setup Menu. This will give access to the following password entry prompt screen:

COC 1500 war 1-08201 war

At the password prompt enter the 4-digit password (default password is '1234') using

and suttons. After completing the entry, press button to confirm. Correct password gives access to the 1st page of configuration mode, see figure (i). An incorrect password will display 'Incorrect' message as shown in figure (ii).

(i) Display after correct password entry

I123

I123



(ii) Display after incorrect password entry

In case you have entered incorrect password, the display will automatically return to

the Setup Mode page (as shown in step 1) in 5 seconds or alternatively, press button to return to Setup Mode immediately

SETTING BAUD RATE

This is the 4th option on the 1st page of Setup Menu. The 'Communication' option can be used to configure the baud rate and the MODBUS identification number. To select it, move selection bar to 'COMM' option and then press . The page shown in the following figure will appear:







SETTING DEVICE ID



Baud Rate

This is the 1st option on 'Communication' page. When the selection arrow is on 'BD RATE', press to access the next page for entering the baud rate

To exit the 'COMM' page and return to the Setup menu, move the selection bar over the 'Quit' option and then press button.

With the help of left/right button select the baud rate from the below specified range and then press to confirm the selection.

Configurable baud rates: 1200, 2400, 4800, 9600, 19200, 38400 bps

MODBUS ID

This is the 2nd option on 'Communication' page. To select it, move the selection arrow on 'MODBUS ID' option and then press . The display page shown on the left appears.





Enter the desired ID from the following permissible range and then press to confirm and save the selection.

Configurable MODBUS ID range is 1 to 247.

At the end of configuration updates, select the 'Save' option to activate the above new configurations in the meter. To return to the previous page, press or wait for 5 seconds.

NOTE: The above details are mentioned in the *Installation & Operation Manual* for Secure Elite on *Page 29.*

CONNECTING MULTIPLE METER



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)	SIM Card not found		
	GSM	Flashing (ON for 500ms and OFF for 500ms)	Searching for GSM Network		
RED		Flashing (ON for 0.1s and OFF for 2.9s)	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 <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.

Track	S	Mashups	Sites	Units	Rules	Notifications				
Home / Uni	ts									
🗘 Units									А	dd Unit
Show 10	Ŧ								Searc	h for
Unit Name	Site	Unit Key 🖨	Category	Data Status	Last Event Timestamp	Device Key	Device Phone		Actions	
1-Schnieder	I	a di tit cc	Inverter	Receiving	2018-07-16 02:24:04	81034235444/1	9	View Data	Ø	Û
2-Schneider	1	7799	Inverter	Receiving	2018-07-16 02:24:05	034235444/2	9 0,000,11,1)	View Data	Ø	<u>۵</u>
	School	5	Inverter	Not Receiving			в	View Data	Ø	Û
	- chool	661.000 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 l	Jnits F	Rules	Notifications		re.com 🔻
Home / Event Inge	stion Logs						🛓 Users
,							🚨 Roles
	tion Logo					_	P Derived Parameters
Event inges	LION LOgs						Event Ingestion Logs
							at API keys
Show 10 🔻						Sear	🗭 Logout
Timestamp					Message		code
2018-07-16 02:42:16	Invalid request. Event sho	ould contain data. { "ev	vents": [{ "timest	amp": 1531689:	133, "unit_key": "84f8b12c", "d	ata": {	not_acceptable
2018-07-16 02:41:13	Invalid request. Event sho	ould contain data. { "ev	vents": [{ "timest	amp": 1531689(070, "unit_key": "84f8b12c", "d	ata": {	not_acceptable
2018-07-16 02:40:10	Invalid request. Event sho	ould contain data. { "ev	vents": [{ "timest	amp": 1531689(007, "unit_key": "84f8b12c", "d	ata": {	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 we@freespirits.in to consult the same.

INSTALLATION VIDEO





Scan the QR code to view the video

TrackSo installation video for Secure Meter Monitoring

Video Shortlink- https://goo.gl/332QKD

Video Link- https://www.youtube.com/watch?v=J0m Am805WA