TRACKSO INSTALLATION GUIDE FOR TRINITY NF29 METER

Brand:TrinityType:Multi-line Digital Display Panel MeterModels:Trinity NF29 Meters

CONNECTION DIAGRAM

On the rear panel, Trinity NF29 Meters has an RS-485 communication socket as shown in the following figure.



Figure T1 – Rear view of Trinity NF29 Meter

- 1. Please unscrew the RS485 terminal as shown in *Figure T1*.
- 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 TT1.

Tri	nity NF29 Pin No. & Assignment	TrackSo Pin No. & Assignment			
2	А	3	D+		
1	В	4	D-		

<u>Table TT1 – Trinity NF29 Meter RS485 chip</u> <u>connections with TrackSo IoT Gateway</u>

DEFAULT CONFIGURATION IN TRACKSO IOT GATEWAY

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

CONFIGURATION AT THE METER END

Enter into programming mode to setup meter for communication

In order to operate for all the field programmable parameters, it is easy user interface by pressing the keys such as

ADDRESS for RS485 communication.

SETTING DEVICE ID

The unit has the provision to specify a meter address at site for RS485 port. This address can be set starting from 1 to 255 with a fixed baud rate of 9600

To set the Device ID, proceed the following instruction:

- (
- 1) Press key for about 4 to 5 seconds on Run Mode display.
- 2) The unit will enter into Programming Mode display with the settable parameter, unit ADDRESS such as shown below



Set Unit Id (Modbus Address) as mentioned on the TrackSo Device

PROG

3) Press key. Immediately, P starts blinking with an interval of one second which shows that the parameter is now

settable. Set the ADDRESS by using \checkmark and \checkmark keys until the desired value is received and then, press key to confirm the set value.

4) Now, the unit will reset and return into Run Mode.

NOTE: The above details are mentioned in the *Installation & Operation Manual* for Trinity NF29 Meter.

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			
		Flashing (ON for 500ms and OFF for 500ms)	Searching for GSM Network			
RED	GSM	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 Com	mand= *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.

T	rackS	*	Mashups	Sites	Units	Rules	Notifications						
	Home / Units												
	🗘 Units									А	dd Unit		
Show 10 V								Searc	h for				
	Unit Name 🖨	Site	Unit Key 🖨	Category	Data Status	Last Event Timestamp	Device Key	Device Phone	Ļ	Actions			
	1-Schnieder	I	t cc	Inverter	Receiving	2018-07-16 02:24:04	81034235444/1	9	View Data	Ø	Û		
	2-Schneider	I	7799	Inverter	Receiving	2018-07-16 02:24:05	034235444/2	90,000,179	View Data	Ø	İ		
•		School	5	Inverter	Not Receiving			в	View Data	Ø	Û		
		chool	661 65 6	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		te.com ▼
Home / Event Inge	stion Logs						🛓 Users
							🚨 Roles
	tion Logs					_	₽ Derived Parameters
Event inges	Event Ingestion Logs						
							🕰 API keys
Show 10 🔻						Sear	🕒 Logout
Timestamp					Message		code
2018-07-16 02:42:16	Invalid request. Event sh	ould contain data. {	"events": [{ "tir	mestamp": 15316	89133, "unit_key": "84f8b12c", "d	ata": { } }] }	not_acceptable
2018-07-16 02:41:13	Invalid request. Event sh	ould contain data. {	"events": [{ "tir	mestamp": 15316	89070, "unit_key": "84f8b12c", "d	ata": { } }] }	not_acceptable
2018-07-16 02:40:10	Invalid request. Event sh	ould contain data. {	"events": [{ "ti	mestamp": 15316	89007, "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 support @trackso.in to consult the same.