TRACKSO INSTALLATION GUIDE FOR RISHABH METER

Brand: Rishabh
Type: Multi-line Digital Display Panel Meter
Models: RISH EM 2340,1320,1330,1340

CONNECTION DIAGRAM

On the rear panel, RISH EM 2340/1320/30/40 has an RS-485 communication socket as shown in the following figure.
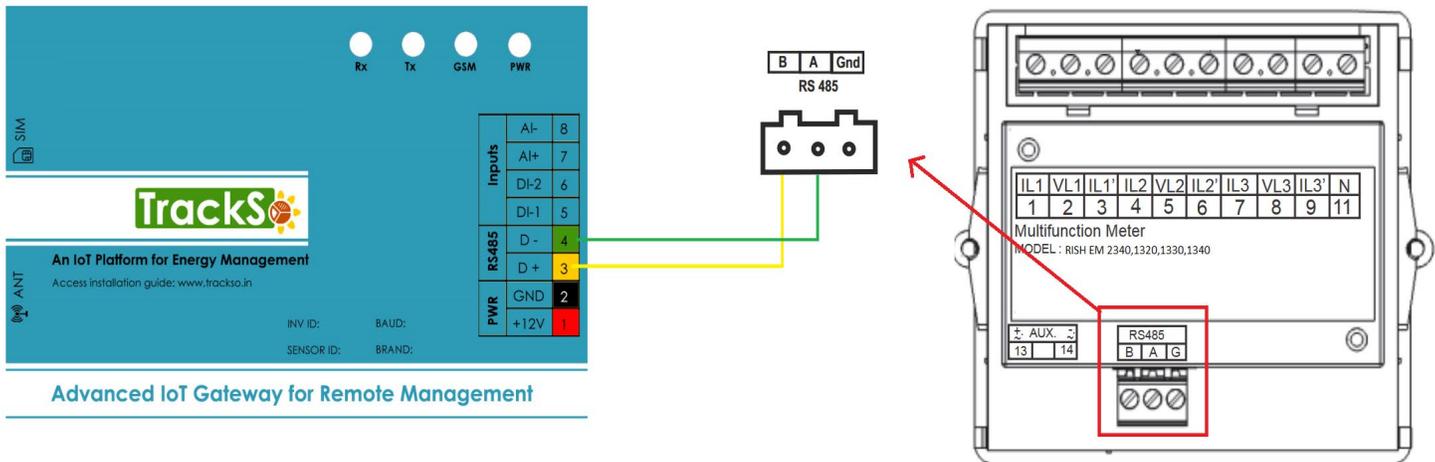

Figure R1 – Rear view of Rishabh Meter

1. Please unscrew the RS485 terminal as shown in *Figure R1*.
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 – R*T1.*

Rishabh Pin No. & Assignment		TrackSo Pin No. & Assignment	
1	B	3	D+
2	A	4	D-
3	G	-	-

Table RT1 – Rishabh RS485 connections with TrackSo IoT Gateway

DEFAULT CONFIGURATION IN TRACKSO IOT GATEWAY

Meter ID: **10 (Range:** 1 to 247)
Baud Rate: **9600 (Default) (Values:** 9600, 19200, 38400)
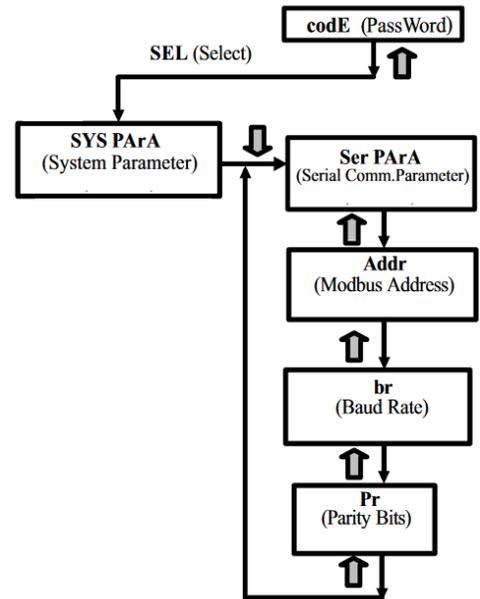Data Bits: 8
Stop Bit: 1
Parity: N/A (None)

The following sections comprise step by step procedures for configuring the Multifunction Meter according to individual user requirements.

To access the set-up screens, press and hold "UP" and "DOWN" keys simultaneously for 5 seconds. This will take the User into the Password Protection Entry Stage

Password Entry

Enter in Set-up mode and at the password prompt enter the 4-digit password (default password is '0000'). After completing the entry, press Up key to advance to verification of the password. Enter Password, fourth digit entered, awaiting verification of the password.

Post successfully entering into set-up mode From System Parameter (SYS PArA) screen Select Serial Comm. Parameter (Ser PArA)

SETTING DEVICE ID

This is the 1st option on the Ser PArA Settings Option This screen applies to the RS 485 output only.

(* Denotes that decimal point will be flashing).

Address Setting:
This screen allows the user to set RS 485 address for the meter. The allowable range of addresses is 1 to 247. When entering new address, it will prompt for first digit.

Press the "↓" key to scroll the value of the first digit.

Press the "↑" key to advance to next digit.

Similarly, Enter second and third digits of address. After entering third digit, press "↑" key to advance to Address Confirmation screen

Address confirmation Screen

This Screen confirms the Address set by user. Press the "↑" key to advance to next Screen "Rs485 Baud Rate"

Pressing the "↓" key will re-enter the "Address Edit" mode.

SETTING BAUD RATE

This is the 2nd option on the Ser PArA Settings Option. This screen allows the user to set Baud Rate of RS 485 port.

The values displayed on screen are in kbaud.

- Pressing the "↓" key will enter the "Baud Rate Edit" mode and scroll the value through 4.8, 9.6 19.2, 38.4 & back to 4.8.
- Pressing the "↑" key will select the value and advances to the Parity Selection

Default value is set to 9.6 (9.6kbps=9600bps)

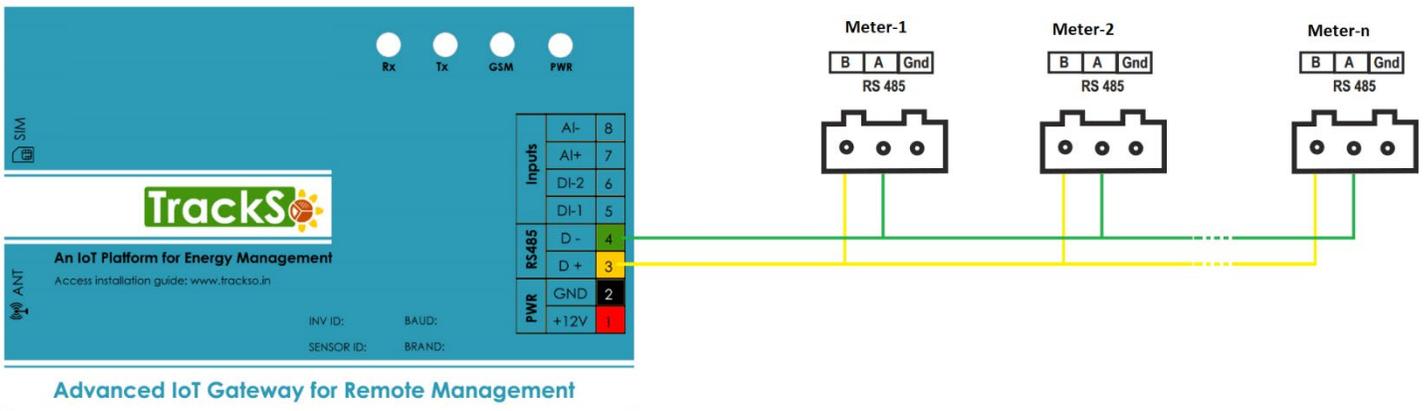## SETTING PARITY & STOP BITS

This is the 3rd option on the Ser PArA Settings Option. This screen allows the user to set pairty & stop bits of RS 485 port.

1. Pressing "↑" key accepts the present value and advance to Communication Parameter selection screen.
2. Pressing the "↓" key will enter the "Parity & Stop bit Edit" mode & scroll the value through
    - odd : odd parity with one stop bit
    - no 1 : no parity with one stop bit
    - no 2 : no parity with two stop bit
    - E : even parity with one stop bit
3. Pressing the "↑" key will set the value
4. Pressing the "↑" key again will jump back to the Communication Parameter selection menu.

NOTE: Default value is set as 'no 1'

CONNECTING MULTIPLE METER

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