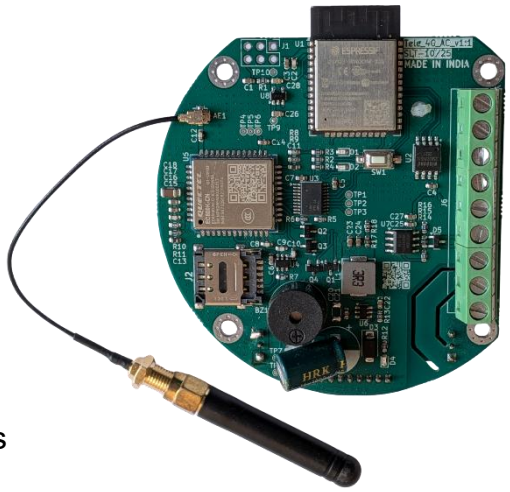
Flow Telemetry Module

Features

- Modbus RTU RS485 Internal Connection
- 4G LTE Connectivity
- Wi-Fi Connectivity
- MQTT/TCP Based Cloud Connectivity
- JSON Formatted Payload Data
- Local Configuration Via Embedded Web Server
- Remote Configuration via Cloud Platform
- Support Modbus Read & Write
- Configurable Read and Upload Intervals separately
- Internal Memory to Store Data During Network Loss
- Keeps all existing user ports as it is for further use

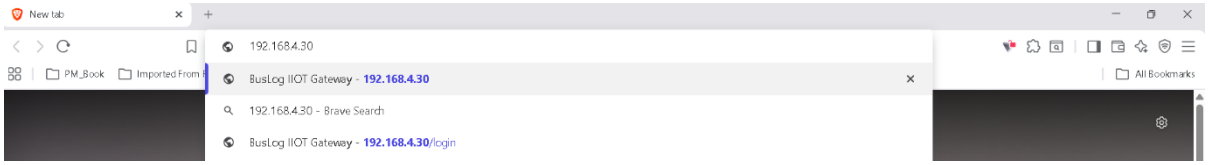


Specifications

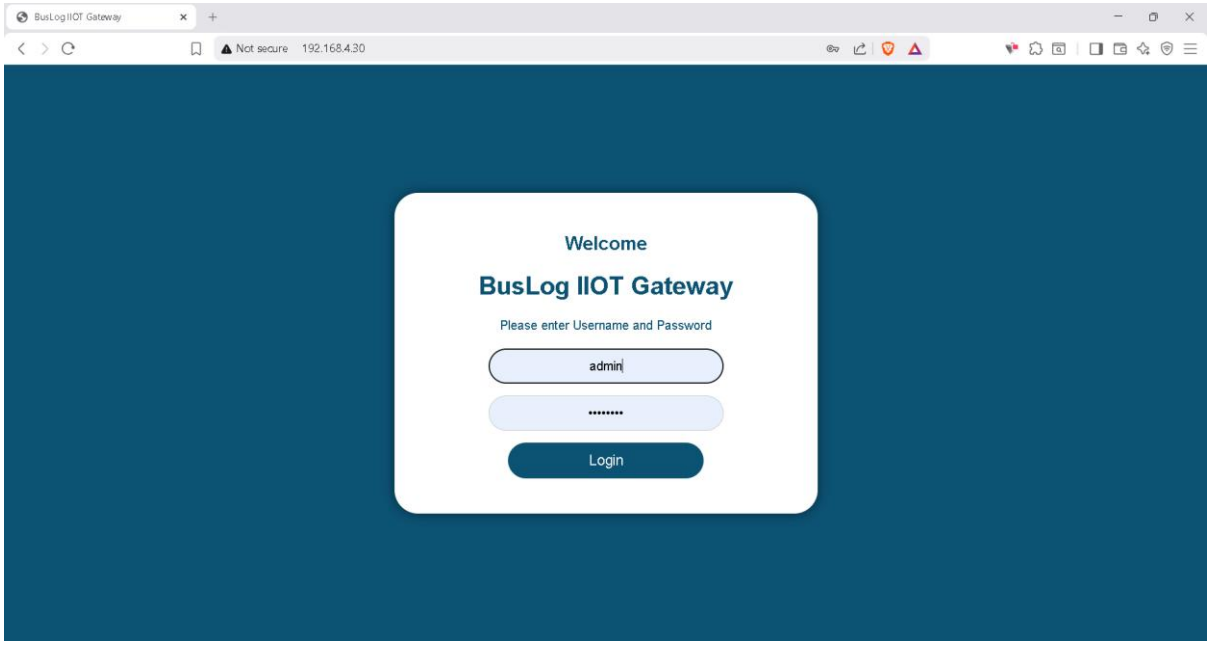
SN	Parameters	Specifications
1	Input Power Supply	220VAC operated
2	Data Reading	RS485 Modbus-RTU input with ESD protection Keeps one RS485 port for user
3	Data Storage (Online)	Data Upload to Server via 4G/Wi-Fi at configurable interval
4	WI-FI	802.11 b/g/n Wi-Fi functionality
5	4G LTE	4G LTE CAT - 1 Module--BAND -B1/B3/B5/B8, B34/B38/B39/B40/B41 SIM Card – Micro (2FF)
6	Communication Protocol	MQTT, TCP/IP Support
7	APN SETTING	Fully automatic APN selection for any network Operator across India
8	Indications	Power, Network Led, buzzer sounds for events
9	RTC/Time	Automatic accurate time syncing with Time servers
10	Terminal	Clamp Cage Screw Terminal
11	Dimensions	82mm diameter (72mm*74mm fitting) as per flowmeter diameter

Configuration

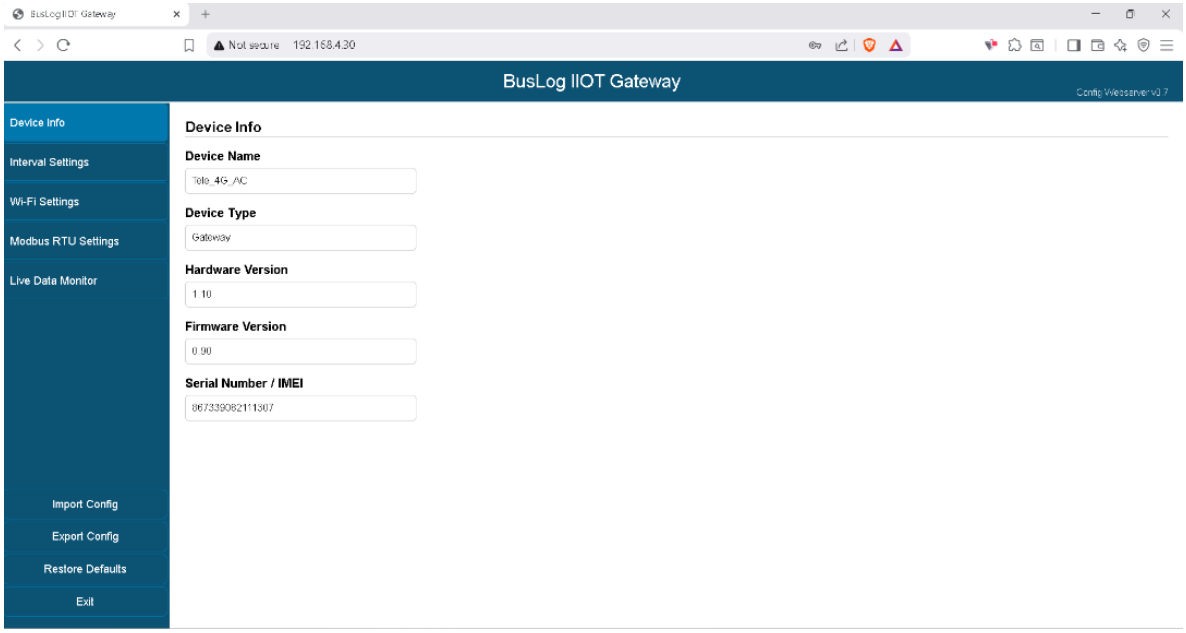
Press and hold the Config button for 5 seconds until two buzzer beeps confirm Config Mode, then connect your laptop to the Wi-Fi network **"BusLog_AP-XXXXXXXX"** (password: **12345678**) and open the shown IP address in your web browser.



Now you will see a web page open, you have to enter the Login ID, Password here which will be "admin", "12345678". You can change them later in the settings.



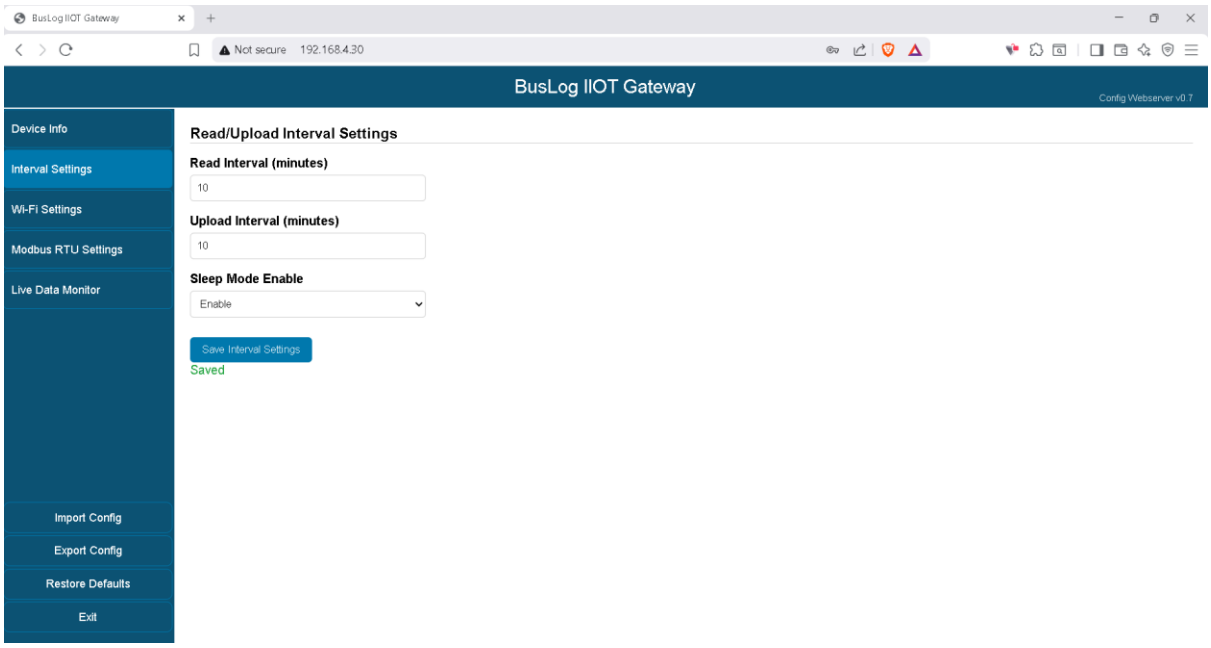
After Login you will see the device Information,



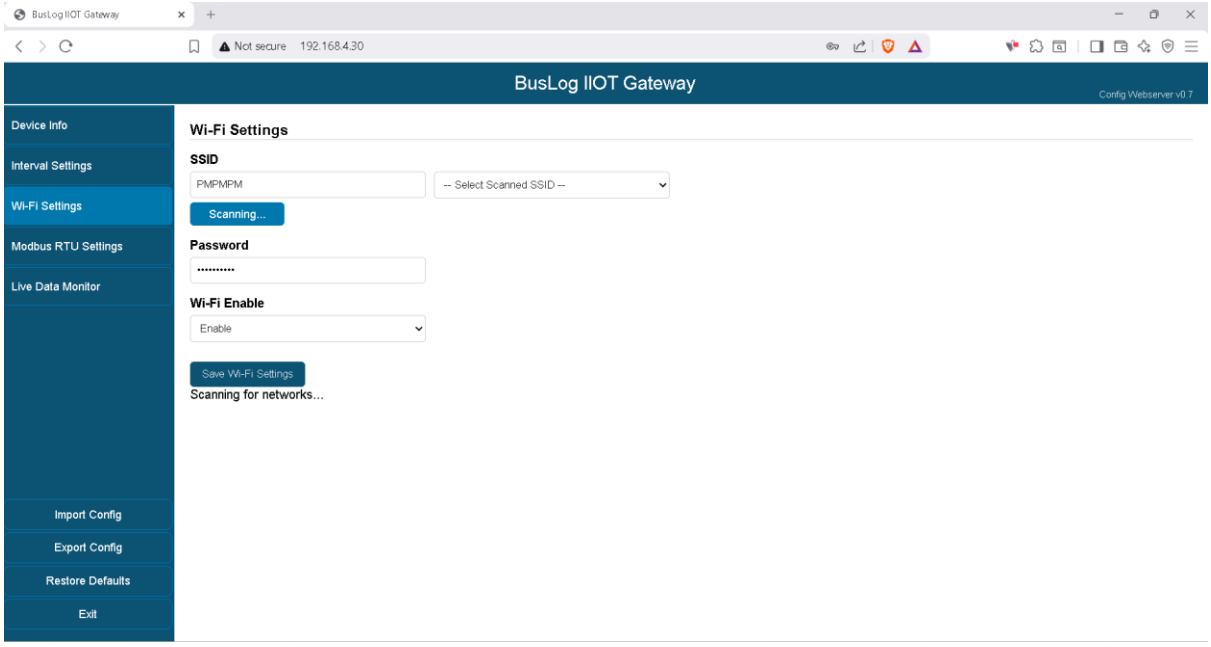
Next you can choose the settings you want to change.

On selecting the settings, you will see the current settings saved in the device, you can change them and click save to change the settings in the device as shown in the images given below.

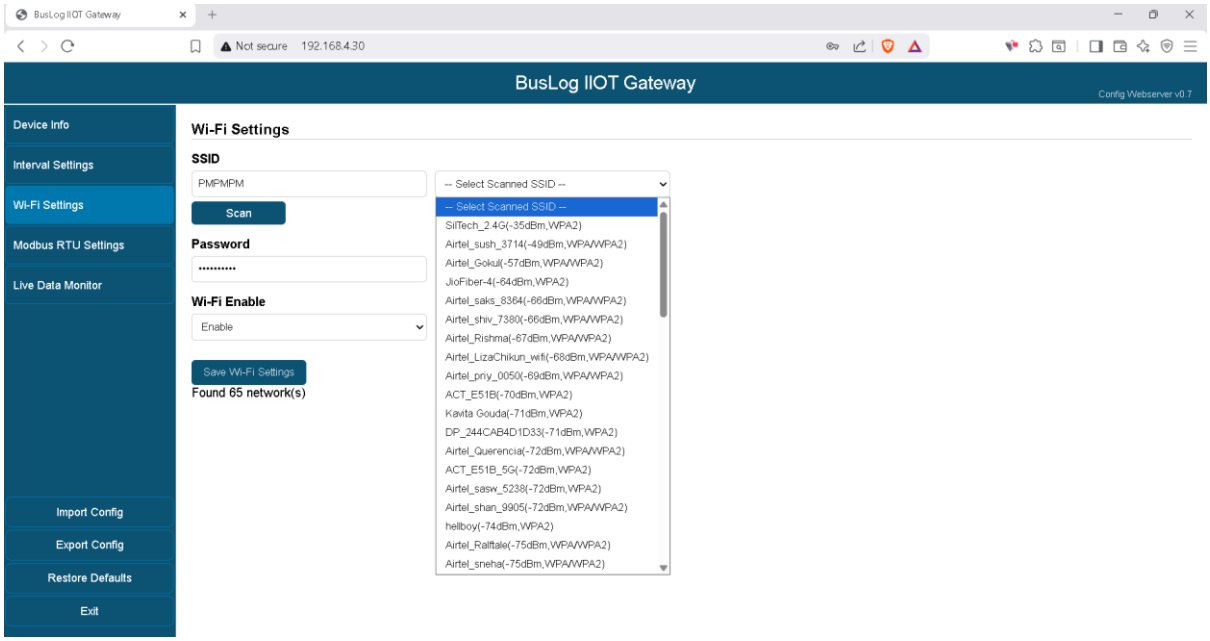
Interval settings:



Wi-Fi Settings: click “Scan” button.



Wi-Fi Settings: Choose Wi-Fi SSID, Enter Password, click “Save Wi-Fi Settings”

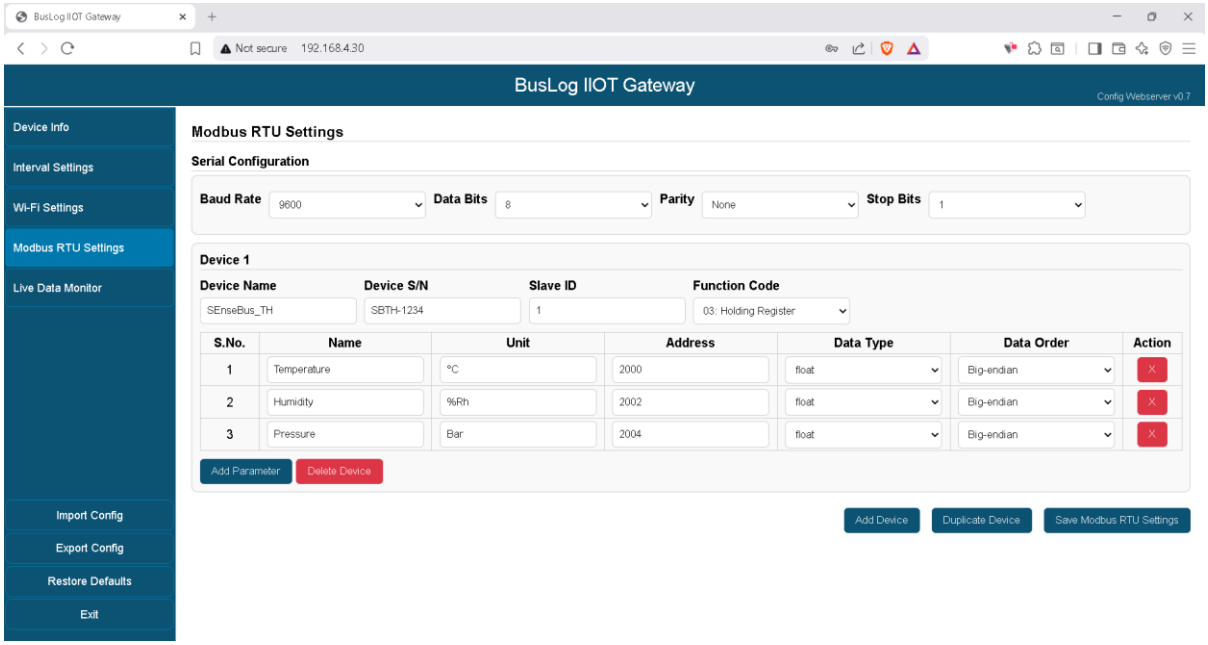


Modbus RTU Settings: Select Communication Parameters- Baud Rate, Data Bits, Parity, Stop bits.

Enter Device Name, Device Seria Number, Slave ID (Modbus ID or the Device), Function Code.

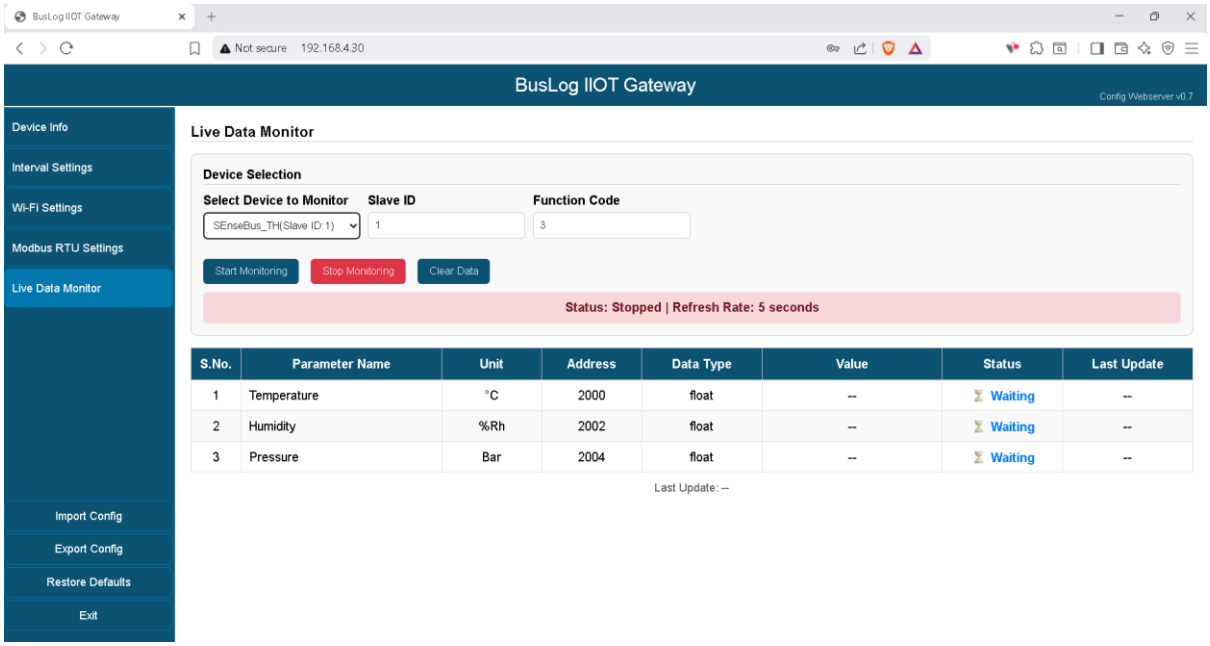
Enter the Name, Unit, Address, Data Type, Data Order of the Parameter.

Add or remove Parameters as needed.

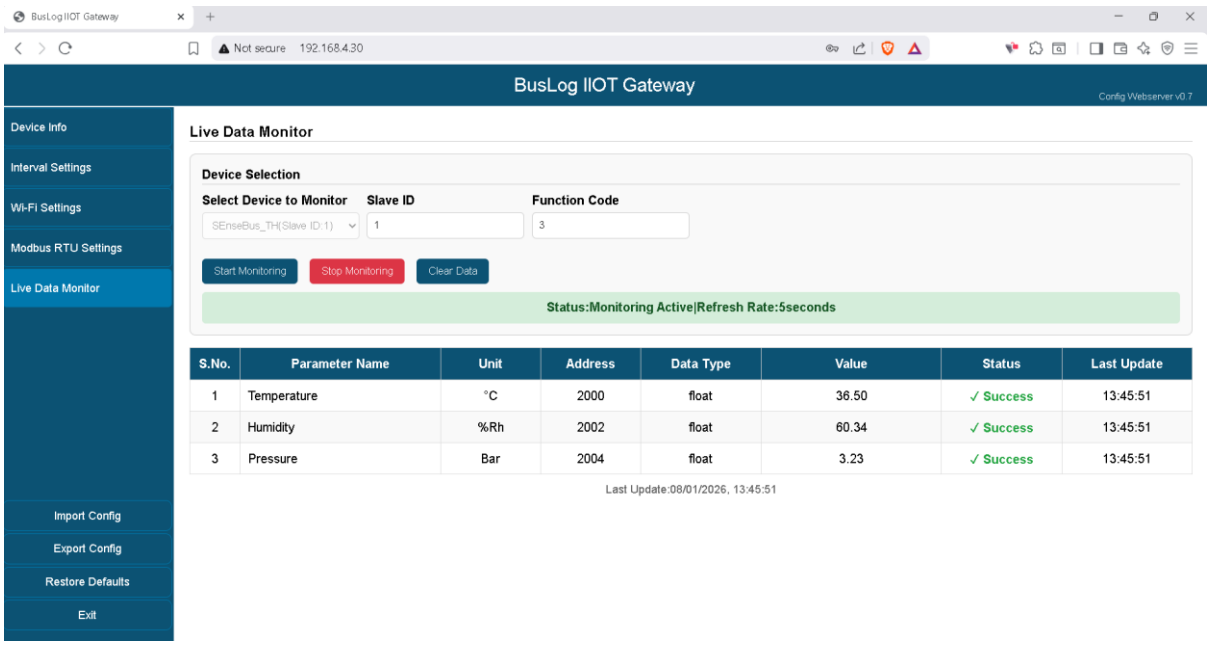


Live Data Monitor: Select the device to monitor and click the “Start Monitoring” button to read live Modbus parameters from the device to check the communication

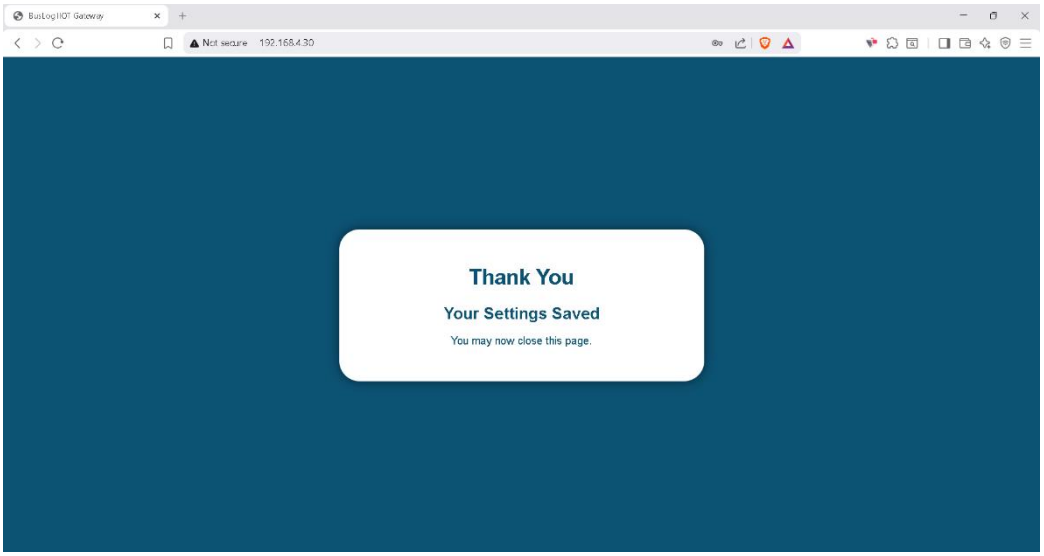
Live Data Monitor: This feature helps the user to verify the communication between the Modbus Device and the Telemetry Device.



Live Data Monitor: Success



Exit: On Click “Exit” the device will automatically restart and starts working as per the settings you have saved.



The module provides practical configurability which can be scaled and implemented to a wide variety of applications. The multi-parameter approach also allows seamless adjustability based on varying sensor requirements alongside key backup (power as well as data) planning, ensuring exhaustive reliability and robustness making it immediately viable for the industrial environment.

Installation:

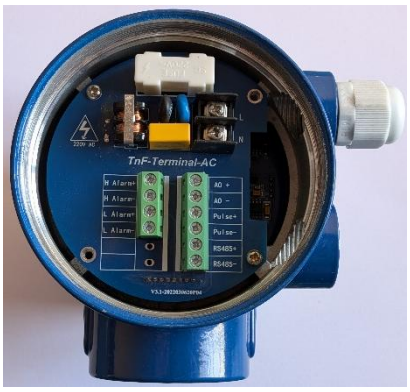


Figure 1:Existing Power Circuit

Figure 2: Remove it and Put the Spacers Provided

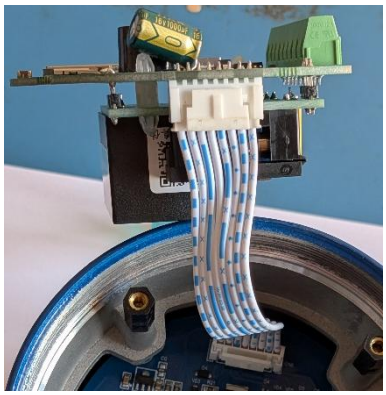


Figure 3: Connect Tele_4G_AC Module

Figure 4: Tight the Screws

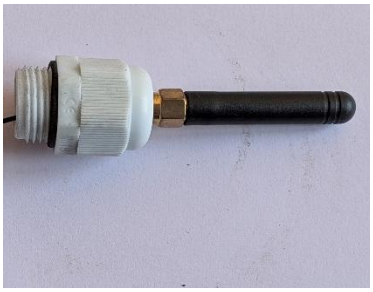


Figure 5: Assemble the Antenna Provided

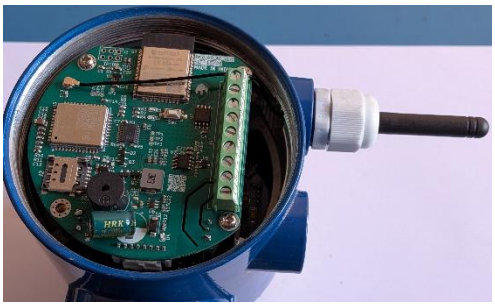


Figure 6: Attach the Antenna to the Device

Contact us:

SilTech Industries
#58, 14th B Main Road, Virat Nagar, Bommanahalli
Bengaluru, Karnataka, India 560068
Email: contact@siltech.in
Website: www.siltech.in

Warranty and Support:

- Warranty: 1-year limited warranty from the date of purchase.
- For any technical support, reach us at contact@siltech.in

Certifications and Compliance:

- RoHS Compliant

Maintenance and Care:

- Clean the Device periodically to avoid dust build up.
- Avoid prolonged exposure to corrosive environments.

Document Version:

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