

BusLog4G_Bat

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



Specifications

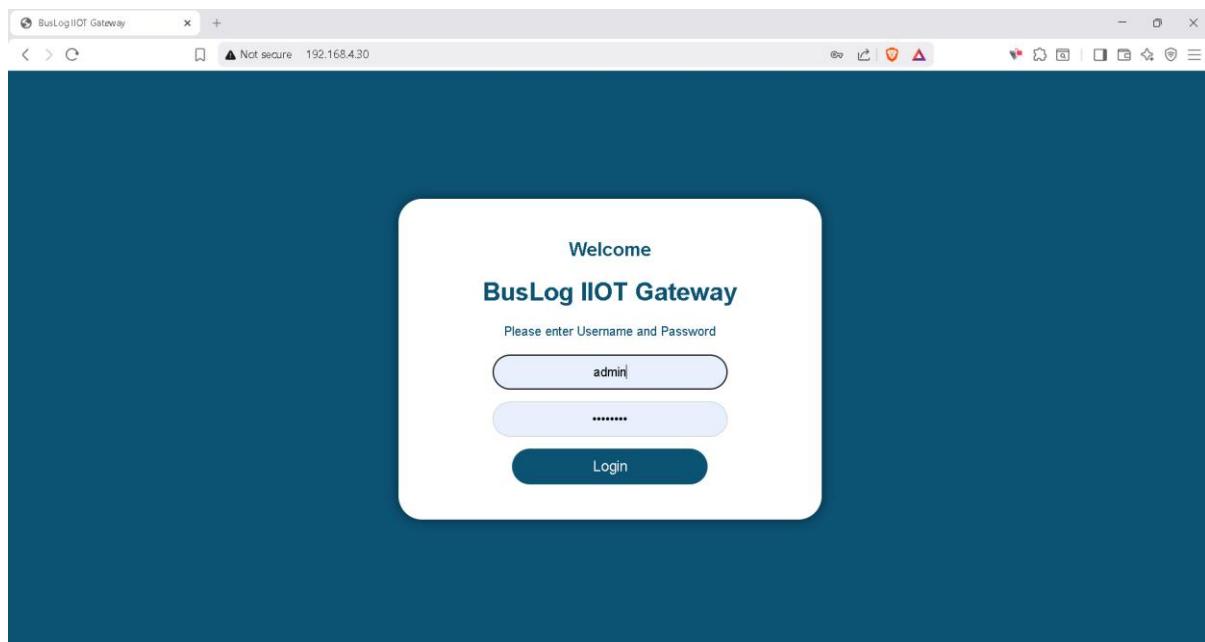
SN	Parameters	Specifications
1	Input Power Supply	Battery powered 10,400mAh with recharge function
2	Data Reading	RS485 Modbus-RTU input with ESD protection
3	Sleep Mode	Inbuilt Sleep Mode for Power Saving
4	Data Storage (Online)	Data Upload to Server via 4G/Wi-Fi at configurable interval, internal memory for Offline storage with auto resume upload with network resume.
5	WI-FI	802.11 b/g/n Wi-Fi functionality
6	4G LTE	4G LTE CAT - 1 Module--BAND -B1/B3/B5/B8, B34/B38/B39/B40/B41 SIM Card – Micro (2FF)
7	Communication Protocol	MQTT, TCP/IP Support
8	APN SETTING	Fully automatic APN selection for any network Operator across India
9	Indications	Power, Network Led, buzzer sounds for events
10	RTC/Time	Automatic accurate time syncing with Time servers
11	Terminal	Clamp Cage Screw Terminal
12	Dimensions	106 X 48 X 53 mm

Configuration

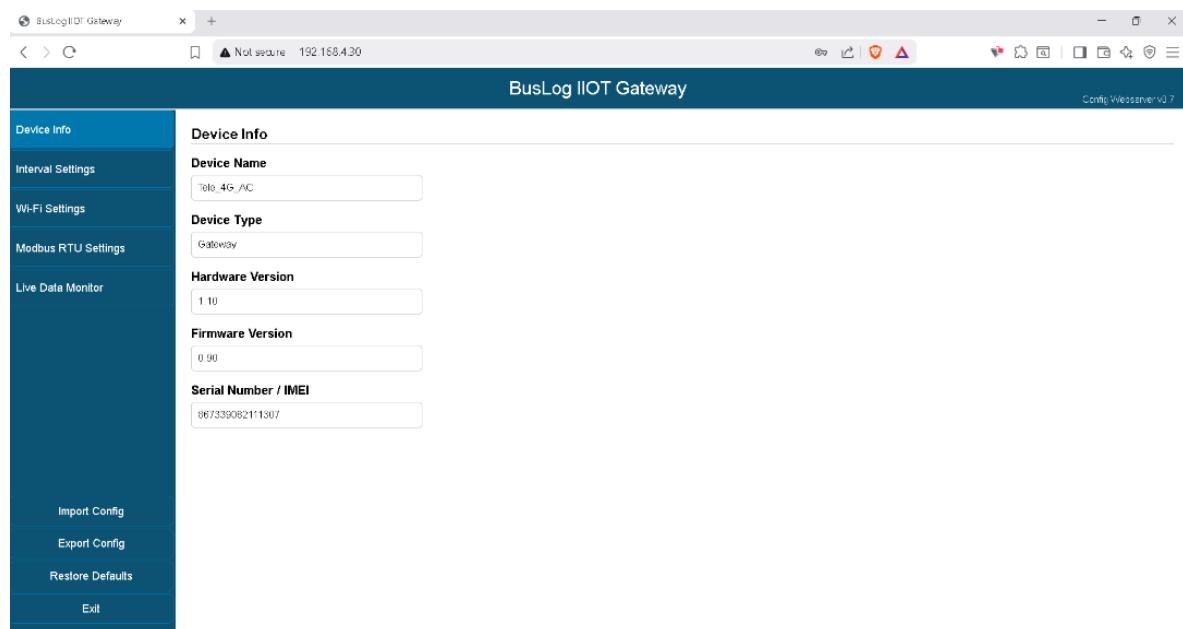
Press and hold the Config button for 5 seconds until two buzzer beeps confirm Config Mode, then connect your laptop to the Wi-Fi network “**BusLog_AP-XXXXXXXX**” (password: **12345678**) and open the shown IP address in your web browser.



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.



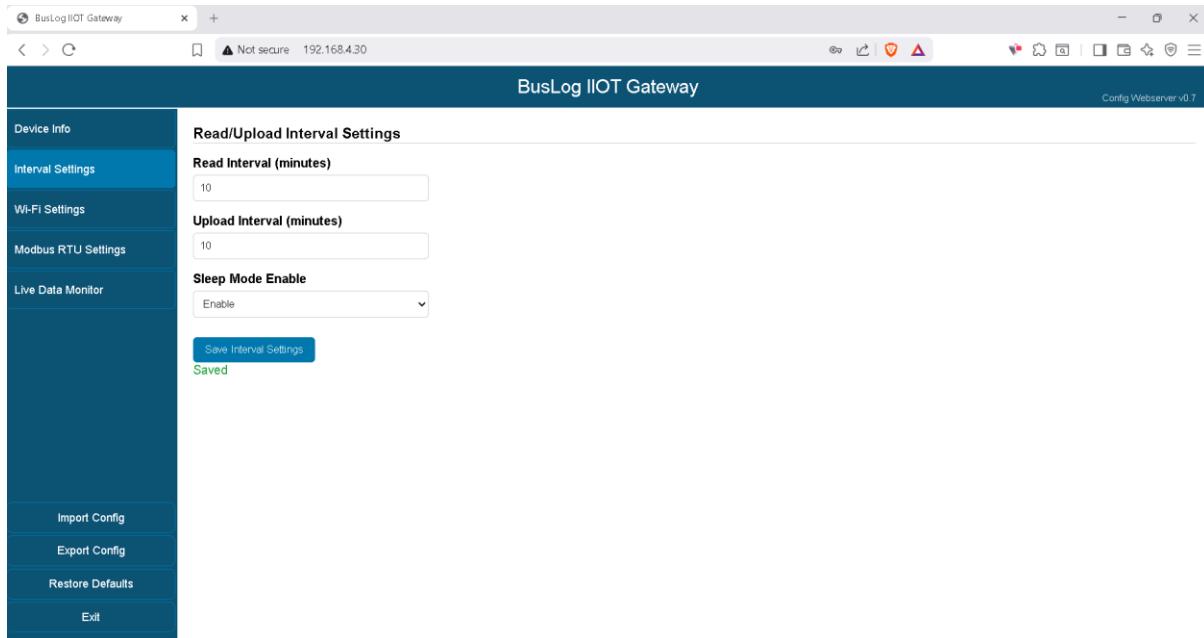
After Login you will see the device Information,



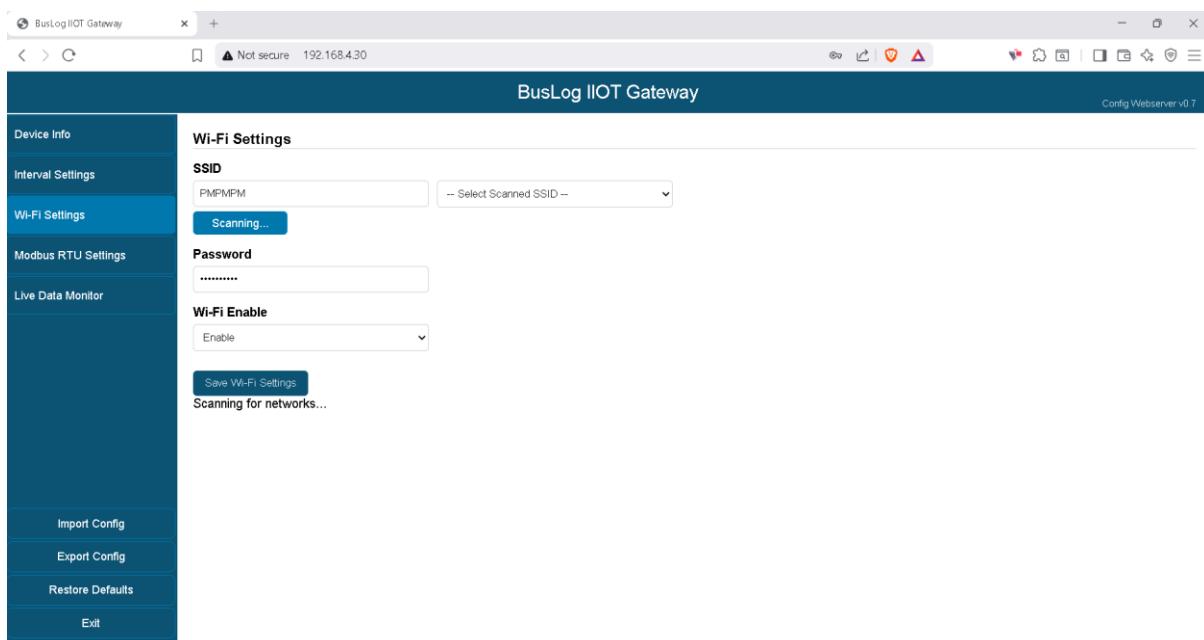
Next you can choose the settings you want to change.

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.

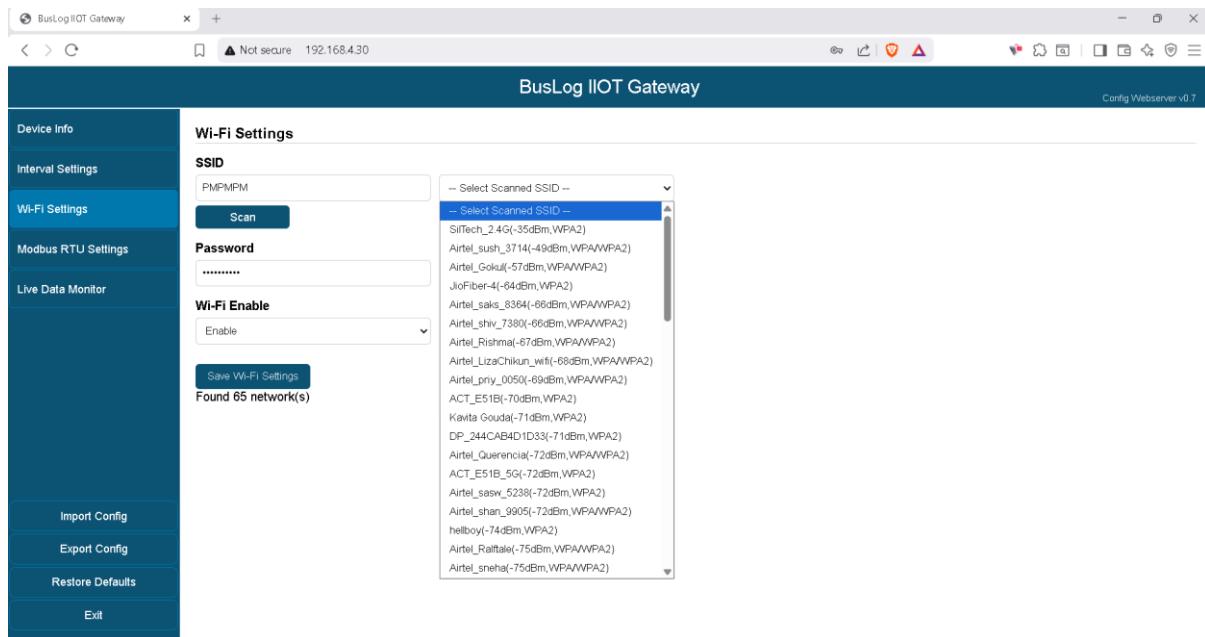
Interval settings:



Wi-Fi Settings: click "Scan" button.



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

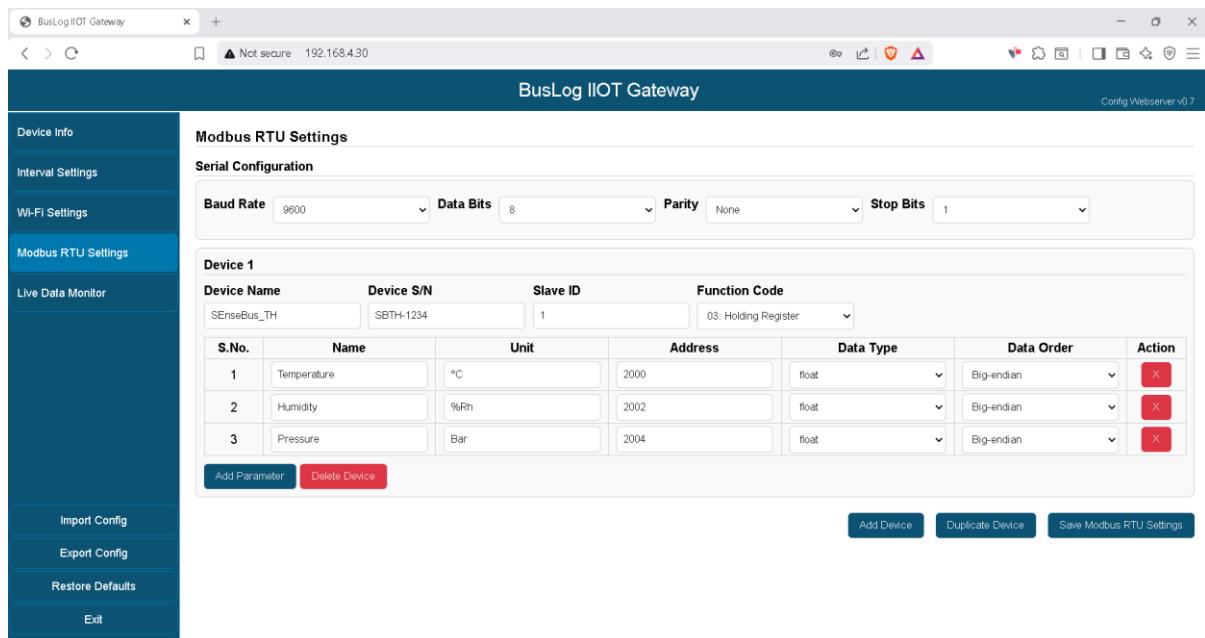


Modbus RTU Settings: Select Communication Parameters- Baud Rate, Data Bits, Parity, Stop bits.

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

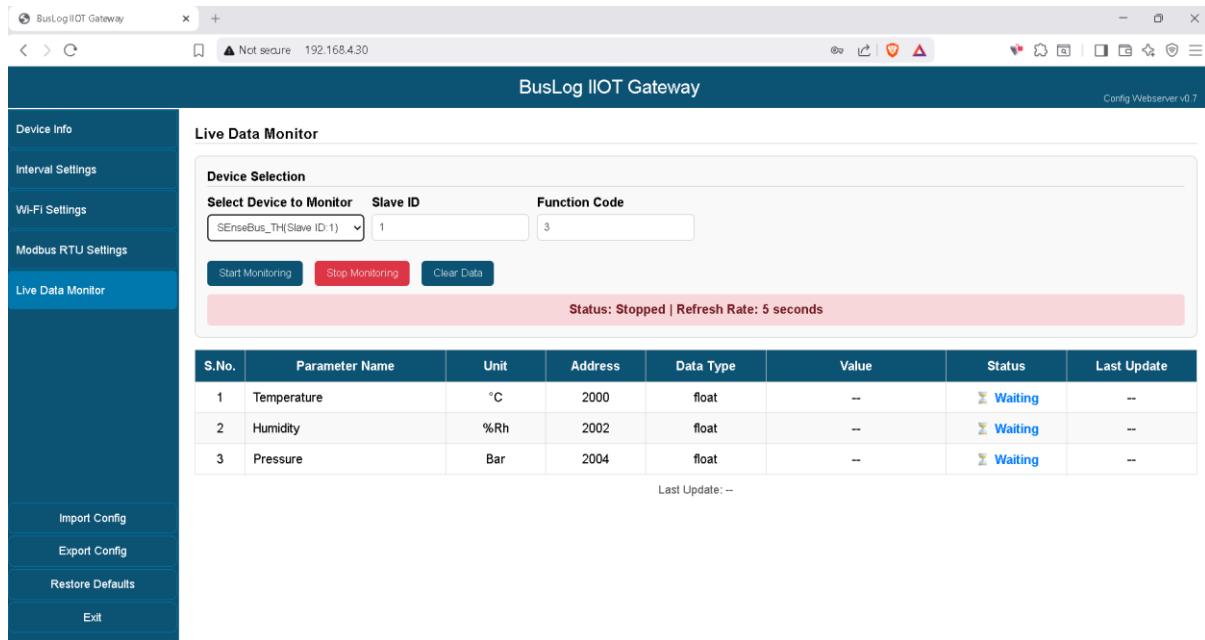
Enter the Name, Unit, Address, Data Type, Data Order of the Parameter.

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

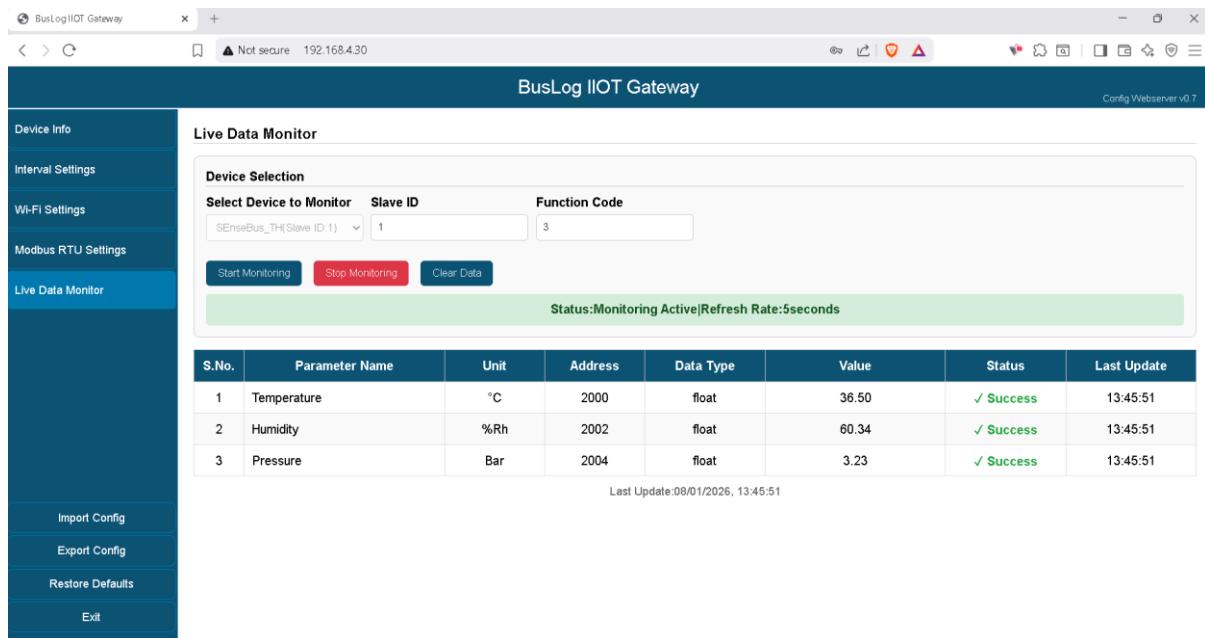
Live Data Monitor: This feature helps the user to verify the communication between the Modbus Device and the Telemetry Device.



The screenshot shows the 'Live Data Monitor' section of the BusLog IIOT Gateway. On the left, a sidebar lists 'Device Info', 'Interval Settings', 'Wi-Fi Settings', 'Modbus RTU Settings', 'Live Data Monitor' (which is selected and highlighted in blue), 'Import Config', 'Export Config', 'Restore Defaults', and 'Exit'. The main content area is titled 'Live Data Monitor' and contains a 'Device Selection' section with dropdowns for 'Select Device to Monitor' (set to 'SEnseBus_TH(Slave ID: 1)'), 'Slave ID' (set to '1'), and 'Function Code' (set to '3'). Below this are buttons for 'Start Monitoring' (blue), 'Stop Monitoring' (red), and 'Clear Data'. A status bar at the bottom indicates 'Status: Stopped | Refresh Rate: 5 seconds'. A table below shows monitoring data for three parameters: Temperature, Humidity, and Pressure, all marked as 'Waiting' with a value of '--'. The table has columns for S.No., Parameter Name, Unit, Address, Data Type, Value, Status, and Last Update.

S.No.	Parameter Name	Unit	Address	Data Type	Value	Status	Last Update
1	Temperature	°C	2000	float	--	Waiting	--
2	Humidity	%Rh	2002	float	--	Waiting	--
3	Pressure	Bar	2004	float	--	Waiting	--

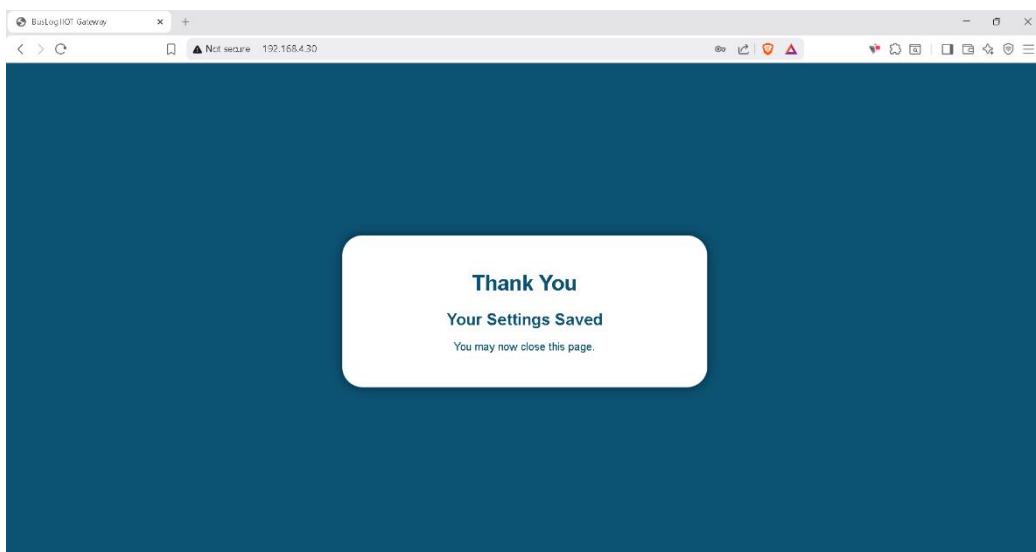
Live Data Monitor: Success



The screenshot shows the 'Live Data Monitor' section of the BusLog IIOT Gateway, similar to the previous one but with an active monitoring session. The main content area is titled 'Live Data Monitor' and contains a 'Device Selection' section with dropdowns for 'Select Device to Monitor' (set to 'SEnseBus_TH(Slave ID: 1)'), 'Slave ID' (set to '1'), and 'Function Code' (set to '3'). Below this are buttons for 'Start Monitoring' (blue), 'Stop Monitoring' (red), and 'Clear Data'. A status bar at the bottom indicates 'Status:Monitoring Active|Refresh Rate:5seconds'. A table below shows monitoring data for three parameters: Temperature, Humidity, and Pressure, all marked as 'Success' with values 36.50, 60.34, and 3.23 respectively. The table has columns for S.No., Parameter Name, Unit, Address, Data Type, Value, Status, and Last Update. The last update timestamp is shown as 08/01/2026, 13:45:51.

S.No.	Parameter Name	Unit	Address	Data Type	Value	Status	Last Update
1	Temperature	°C	2000	float	36.50	Success	13:45:51
2	Humidity	%Rh	2002	float	60.34	Success	13:45:51
3	Pressure	Bar	2004	float	3.23	Success	13:45:51

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:

Mount the device over the DIN Rail, Connect the Modbus Slave device on the given A|B Terminals given on the device as shown in the image.

Note: Do NOT Connect any other device on the Same battery and Do NOT use any other kind of battery with the device.

Charging:

Connect any USB Type-C Charger with Minimum 1.5Amp current output to the slot given on the device.

Red LED GLOW: Device is Charging.

Green LED GLOW: Device Fully Charged.



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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:

Version: 1.1

Release Date: December 2025