

Sedac Lite

Data Sheet

The next-generation IoT gateway

Features

- Connect meters/devices with RS485 communication to collect data from the devices and make it available through the IoT platform via MQTT
- Configure and read multiple slave IDs, selectable register address to fetch data
- Allow changing the parameter data type, data polling time from user
 end
- Provide communications to diverse devices with MQTT transmission types

Technical Specifications

SEDAC LITE

Power supply	5V, 1A DC				
Wi-Fi Antenna	2.4 GHz				
Connectors	UFL connectors (LoRa & Wi-Fi antenna)				
Mounting	DIN Rail/Direct Mounting				
Dimensions	102mm x 87mm x 28mm				
LED	Status (Sts) LED:				
	Blue: No Wi-Fi connection				
	Green: Wi-Fi connected				
	Yellow (Blink): Data being requested				
	Purple: Configuration mode				
	Red: Not connected with any device				
	Power (Pwr) LED: Solid Red when power is supplied				
Button	Reset				
	Config				
-					



Ports

NC	NC	NC	NC	NC	+5V	GND	GND	B-	A+	

Sedac Lite interface 1

Connection description



User Interface

i. Network Configuration

Step 1: Press the "Config" button to initiate the setup process. The status LED will turn purple to indicate the device is ready for configuration.

Step 2: On your device, select "Sedac Lite" from the available Wi-Fi networks.

Step 3: A dialog box will appear prompting you for a password. Enter the password: 12345678.

Step 4: Upon successful password entry, you will be directed to the Main menu page-01. (Img: 1)

Alternatively, you can directly access the page by entering the IP address 192.168.4.1 in your browser's address bar.

Step 5: Click "Configure Wi-Fi", this will bring to Wi-Fi Settings page: Enter SSID: VOLKKOMMEN_1 Password: Volkkommen@123 (Img 2)





ii. Modbus Configuration

Step 6: Use your Wi-Fi router or a network analyzer application to find the IP address of your device.

Step 7: Open a web browser and enter the device IP address. Once connected, go to the list of connected devices and select "Sedac Lite" from the list.

Step 8: You will be directed to a login page. Enter the following credentials: Username: User@volk.com Password: Pass@123 (Img 3)

Step 9: After logging in, the main menu (Page 02) will appear. Click on "Modbus". (Img 4)

Step 10: A sign-in prompt will appear. Enter the following credentials: Username: admin Password: admin (Img 5)

Step 11: This will open the Modbus Register Entry page. (Img: 6)

Baud Rate: Set the baud rate according to your specific requirements.

Word Parity: Select the appropriate word parity based on your configuration.

Stop Bit: Choose the appropriate stop bit based on your device specifications.

Parameter ID: Enter the appropriate parameter ID, which can be obtained from your energy meter.

Function Code, Offset, Format, and Endian: These details can be found in your device datasheet.

Maximum Number of Registers: Set the maximum number of registers to 90.

Step 12: After entering the necessary details, click on "Submit Form". The output value will be displayed.

Step 13: Click the "Read" button to initiate the data reading process.

Step 14: If "timeout" is displayed under the output, check your input data and ensure there is a proper connection between your device and Sedac Lite.

LOGIN	Configure WiFi	
Modbus_Lite_03	Setup	
Please enter your credentials to login.	Info	Sign in to access this site
username	Update	Authorization required by http://192.168.0.123 Your connection to this site is not secure
password	Restart	Username
LOGIN	Modbus	Password
	Log out	Sign in Cancel
Img; 3 Login	Img; 4 Main menu 02	Img; 5 sign in

Data Sheet







PRECAUTIONS

Check power and voltage compatibility of the power supply before connection, as there is a risk of damaging the device.