

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 Modbus, Lite, 03	Configure WiFi	
	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.