

Sticklogger-Wifi

User Manual

(For internal use only)

Revision record:

Version NO.	Reviser	Date	Description
V0.1	wmj	2023-09-26	Initial version

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一、 Product description

Sticklogger-Wifi is a data collector product independently designed and developed based on the application requirements of energy storage system. It can collect the working state and various data of the inverter and energy storage battery, connect to the cloud platform for long-term and effective monitoring and management of the energy storage system; With RS232/RS485 communication, Bluetooth communication, WiFi communication, support for cloud platform access and mobile APP connection access; The products are widely used in IOT applications such as home energy storage, industrial and commercial energy storage, and industrial power.

二、 Product features

- Battery/inverter data collector
- Low-power Bluetooth communication
- Wireless WIFI communication 2.4GHz
- 1 channel RS232/RS485 communication
- Cloud platform access
- Mobile APP visit access
- Ultra-low power dormancy

三、 Product application

- Home energy storage system
- AGV battery
- Robot battery
- Smart grid
- Industrial battery module
- Back up battery system

四、 Technical data

Model	WIFI-N-232	WIFI-N-485
Size (L x W x H)	209 x 99 x 25mm	

Power Specification	
Working Voltage	5VDC~12VDC
Max Working Voltage	15VDC
Working Power	1.5W
Working Current	5VDC, average <100mA 12VDC, average <50mA
Supply Current	5VDC, min.300mA 12VDC, min.120mA
Indicator Light	PWR: Power indicator, Green light COM: Serial communication indicator, Green light NET: WiFi communication indication, Green light
Bluetooth Communication	
Bluetooth Protocol	Bluetooth 5(LE)
Transmission Speed	125Kbps、500Kbps、1Mbps、2Mbps
Bluetooth Frequency	2.4 GHz
Frequency Rang	2402MHz~2480MHz
Transmitted Power	+20 dBm (Max)
Working Mode	Bluetooth low power mode
WiFi Communication	
WiFi Protocol	802.11 b/g/n
Transmission Speed	802.11 n(2.4GHz) up to 150 Mbps
WiFi Frequency	2.4 GHz
Frequency Rang	2412MHz~2472MHz
Transmitted Power	+20dBm (Max)
Antenna Interface	
Antenna Type	External WiFi Stick Antenna
Frequency Rang	2400MHz~2500MHz
Input Impedance	50 Ω
VSWR	≤ 1.5
Gain	3dBi
Input Connector	SMA
Data Interface	

Communication Type	RS232, 1 channel	RS485, 1 channel
Supported Baud Rate	9600, 115200bps	9600, 115200bps
Communication Protocol	MODBUS	MODBUS
Isolation Type	Non-Isolated	Non-Isolated
Connector	M12-4	XYM14-4
Environmental Parameter		
Working Temperature	-30℃~+70℃	
Working Humidity	10%~90%RH no condensation	
Storage Temperature	-40℃~+85℃	
Storage Humidity	<40%	
IP Grade	IP65	

FCC Compliance Statements

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Caution: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

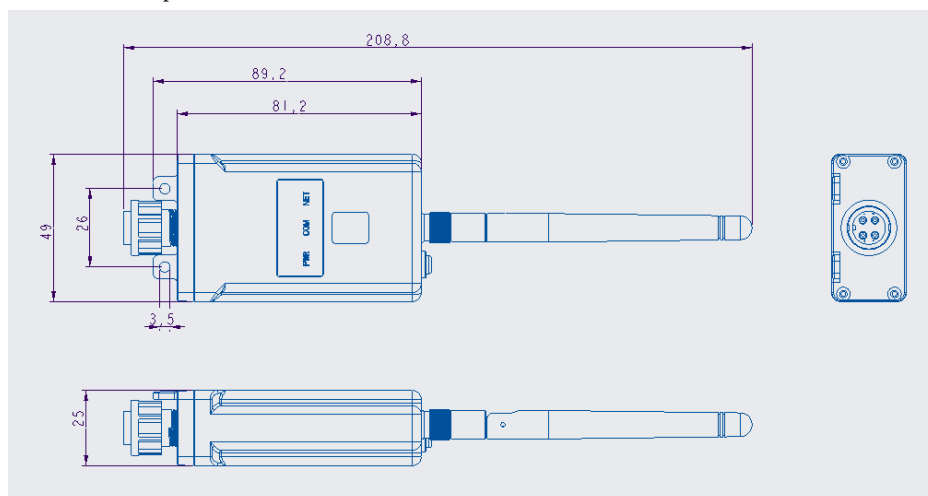
RF Exposure Compliance

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

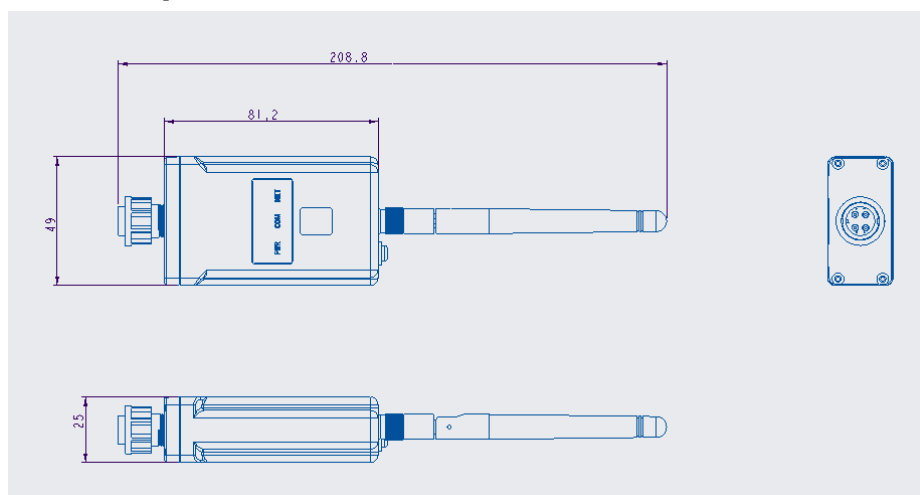
This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.

五、 Product size

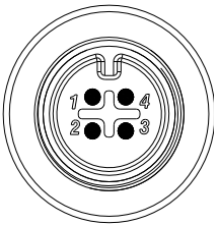
WIFI-N-232 product size:

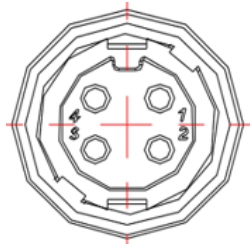


WIFI-N-485 product size:



六、 Interface definition

Connector	Pin	Definition	Function description
WIFI-N-232 Connector M12-4 	4	VCC	Positive power input
	3	TXD	RS232 Data sending terminal
	2	RXD	RS232 Data receiving terminal
	1	GND	Negative power input

WIFI-N-485 Connector XYM14-4 	1	VCC	Positive power input
	2	A	RS485 bus A
	3	B	RS485 bus B
	4	GND	Negative power input

七、 Manufacturer information

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