

# IW10

## WiFi Adapter Module for Inverter

### About this product...

As part of the SALUS Solar System, the IW10 WiFi Adapter Module facilitates intelligent communication between the inverter and batteries, ensuring a fast and stable connection with the SALUS Premium Lite app. Enjoy quick installation and dependable connectivity for real-time monitoring and control.

Designed with advanced protection against electrostatic discharges, voltage fluctuations, and electromagnetic interference, the IW10 guarantees stable operation and safe, reliable performance of your equipment.



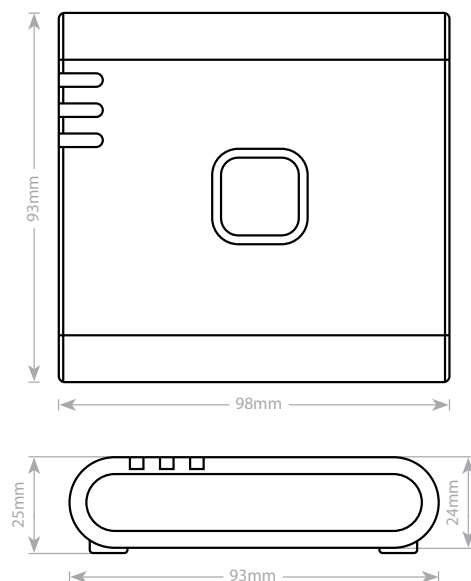
### Features

- Easy monitoring and control of the photovoltaic system
- Fast and stable connection with the SALUS Premium Lite app
- Quick and easy installation
- Equipped with advanced protection against electrostatic discharges
- Over the air firmware update capability
- Supports cloud services

### Specification

<b>Power Supply</b>	5V_DC from RJ45 port(pin1 VCC /pin2 GND)
<b>Wired Communication</b>	RS485 communications via RJ45 cables
<b>Wireless Communication</b>	Bluetooth v4.2 BR/EDR and BLE (for commissioning only), WIFI: 802.11 b/g/n
<b>WiFi Connection</b>	802.11 b/g/n
<b>Operating Temperature</b>	0 to 40°C
<b>Cloud Integration</b>	AWS IoT, Cloud platforms with firmware customization
<b>Warranty</b>	5 Years
<b>Support Period</b>	5 Years (Support period end date 31-12-2030)

### Dimensions



## IW10 WiFi Adapter Module - Technical Data

### Electrical and Mechanical Specifications

<b>Power Supply</b>	5V_DC from RJ45 port(pin1 VCC /pin2 GND)
<b>Wired Communication</b>	RS485 communications via RJ45 cables
<b>Wireless Communication</b>	Bluetooth v4.2 BR/EDR and BLE (for commissioning only) WiFi: 802.11 b/g/n
<b>Mounting</b>	Desktop or surface mount with additional wall bracket to a mounting height of 2m max
<b>WiFi Connection</b>	802.11 b/g/n
<b>Bluetooth Connectivity</b>	4.2 BR/EDR and BLE (commissioning only)
<b>Firmware update</b>	Over the air firmware update capability
<b>Compliance Tests / EMC Tests</b>	IEC61000-4-11, IEC61000-4-2, IEC61000-4-4, IEC61000-4-51.0kV
<b>Communication</b>	Mobile App operation
<b>Outdoor Transmission range</b>	Bluetooth: Mini 10m WiFi: Mini. 60m
<b>Power Consumption</b>	Max. 3W
<b>ESD</b>	IEC61000-4-2, Target $\pm 8\text{kV}$ for contact and $\pm 12\text{kV}$ for air discharge, no damage to unit.
<b>EFT</b>	IEC61000-4-4, Pass both $\pm 4\text{kV}$ 100KHz 0.75ms and $\pm 4\text{kV}$ 5KHz 15ms.
<b>Line Interruptions &amp; Voltage Dips</b>	IEC61000-4-11, Test level Class 3, No lock-up, no loss of memory, Reset OK.
<b>Surge test</b>	IEC61000-4-51.0kV, No lock-up, no loss of memory.
<b>Regulatory approval</b>	CE, UKCA, FCC for NA.
<b>Power cable</b>	1 meter with M14 aviation plug 4 pins to RJ45
<b>Cloud integration</b>	AWS IoT, Cloud platforms with firmware customization
<b>Flash Size</b>	16 MB
<b>Housing Material</b>	White Plastic
<b>Operating Environment:</b>	Indoor, residential.
<b>Storage temperature</b>	-20°C – 60°C
<b>Operating temperature</b>	0°C – 40°C
<b>Dimensions (H x W x D)</b>	98mm x 93mm x 25mm
<b>Relative humidity (noncondensed)</b>	<90% RH
<b>Ingress Protection Rating</b>	IP30
<b>Regulation</b>	CE, R&TTE, UKCA for EU
<b>Environmental Requirement</b>	RoHS compliance, REACH/WEEE directive
<b>Warranty</b>	5 Years
<b>Support Period</b>	5 Years (Support period end date 31-12-2030)

## Control & Monitor from anywhere...

With the SALUS Premium Lite App.

Download it from Google Play or the App Store.



## LED Indicators ...

The SALUS IW10 WiFi Dongle has 3 dual coloured LED to indicate network connection status Cloud, WiFi and Communication.

### CLOUD LED

**GREEN COLOR** - Indicates the dongle is connected to the cloud.

**RED COLOR** - Indicates the dongle is not connected to the cloud.

### WiFi LED

**GREEN COLOR** - Indicates the dongle is connected to the WiFi router.

**RED COLOR** - Indicates the dongle is not connected to the WiFi router.

**ORANGE COLOR** (flashing in 1 second) - indicate the dongle is in WiFi setup mode

### COMM LED

**GREEN COLOR** - Indicates the communication between the dongle and the inverter is correct.

**RED COLOR** - Indicates the communication between the dongle and the inverter failed.



## Cloud Server...

The WIFI dongle collects all necessary data from the inverter every 5 minutes and sends to the cloud to be displayed via the mobile app in the form of graphs and charts.



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