Wall Switch

Featuring LoRaWAN®

WS50x

WS50x is a smart LoRaWAN® wall switch for the local and remote control of lights and electrical appliances. It adopts two standard sizes for most of international wall switch types, which can replace the traditional wall switches directly. Compliant with Milesight LoRaWAN® gateway and Milesight IoT Cloud solution, WS50x can be monitored and controlled via webpage or mobile App remotely and triggered by other Milesight sensors.

WS50x can be widely used for indoor applications in homes, offices, hotels, museums, etc.

◆ Features

- Support local or remote control via high reliability relay
- Collect current, voltage, power, electrical consumption and support overload protection
- Built-in switch indicator, easy to use in dark environment
- Ultra-wide-distance wireless transmission up to line of sight of 15 km
- Equipped with NFC for one touch configuration and support card emulation mode
- Function well with standard LoRaWAN® gateways and network servers
- Compliant with Milesight IoT Cloud
- Support Milesight D2D protocol to enable ultra-low latency control without gateway
- Support multicast feature to control switches in bulk

◆ Specifications

Electrical		
Circuit Type	3-Wire (Neutral Required)	2-Wire (Non-neutral)

Switch Indicator	Ice Blue	
Input Voltage	100~250 VAC, 50~60 Hz	
Maximum Current	Inductive: 5 A per Gang, Total 10 A Resistive: 10 A per Gang, Total 10 A	
Rated Load	Max 1000 W per Gang, total 0~2000 W	Max 1000 W per Gang, total 38 ~ 2000 W
Terminal	SPST	
Switches (Optional)	86 Type: 1-Gang/2-Gang 120 Type: 1-Gang	86 Type: 1-Gang/2-Gang/3-Gang
Measurement	Voltage (VAC), Current (mA), Power Factor (%), Power (W), Power Consumption (kWh)	---
Wireless Transmission		
Technology	LoRaWAN®, Milesight D2D	
Frequency	CN470/IN865/RU864/EU868/US915/AU915/KR920/AS923-1&2&3&4	
Tx Power	16 dBm (868 MHz)/22 dBm (915 MHz)/19 dBm (470 MHz)	
Sensitivity	-137dBm	
Mode	OTAA/ABP Class C	OTAA/ABP Class B, Class C to B, Class C
Software		
Configuration	NFC	
Switch Control	Local Press or Remote Control	
Advanced Features	Schedule Switch, Switch Lock, Overcurrent Protection, Multicast, Milesight D2D Controller, Milesight D2D Agent	
Physical Characteristics		
Ingress Protection	IP20	
Material & Color	Antiflaming Polycarbonate, White (Customizable)	
Dimensions	86 Type: 86 × 86 × 40 mm (3.39 × 3.39 × 1.57 in) 120 Type: 118 × 72 × 46.9 mm (4.65 × 2.83 × 1.85 in)	
Operating Temperature	-20°C to +60°C (-4℉ to +140℉)	
Relative Humidity	0% to 95% (non-condensing)	