

Smart Button

Featuring LoRaWAN®

WS101



Milesight WS101 is a LoRaWAN®-based smart button for wireless controls, triggers and alarms. WS101 supports multiple press actions, all of which can be defined by the user to control devices or trigger scenes. Besides, Milesight also provides a red button that is primarily used to send SOS alarms. Compact and battery-powered, WS101 is easy to install and carry everywhere. Compliant with Milesight LoRaWAN® gateways and Milesight IoT Cloud solutions, users can know the alarms and use the WS101 to easily trigger other sensors or appliances remotely via web or mobile Apps.

WS101 can be widely used in smart homes, smart offices, hotels, schools, etc.

◆ Features

- Support multiple press actions to control devices, trigger a scene or send emergency alarms
- Easily to install or carry with the convenient size
- Built-in LED indicator and buzzer for press actions, network status, low battery indication
- Ultra-wide-distance wireless transmission: 15 km in line of sight scene
- 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

◆ Specifications

Wireless Transmission

Technology	LoRaWAN®
Frequency	CN470/IN865/RU864/EU868/US915/AU915/KR920/AS923
Tx Power	16 dBm (868 MHz)/22 dBm (915 MHz)/19 dBm (470 MHz)
Sensitivity	-137 dBm @300bps
Mode	OTAA/ABP Class A

Interface

Button	1 × External Button + 1 × Reset Button (Internal)
LED Indicator	1
Buzzer	Support

Operation

Configuration	NFC Configuration via Mobile App
---------------	----------------------------------

Physical Characteristics

Power Supply	1 × 1650 mAh ER14335 Li-SOCl ₂ battery
Battery Life*	9 years (10 presses per day, SF7 for EU868) 6.5 years (10 presses per day, SF10 for EU868)
Operating Temperature	-30°C to +60°C
Relative Humidity	≤90% (non-condensing)
Ingress Protection	IP30
Dimension	50 × 50 × 18 mm (1.97 × 1.97 × 0.71 in) Button: Φ20 mm (Φ0.79 in)
Material	Anti-flaming Polycarbonate
Color	White (Button: White/Red Optional)
Installation	On the flat surfaces with screws or 3M tapes, Lanyard

* Tested under laboratory conditions and for guideline purposes only.

