Smart Button

Featuring LoRaWAN®

WS101





WS101 is a LoRaWAN®-based smart button for wireless controls, triggers and alarms¹. 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 Development Platform solutions, users can know the alarms and use the WS101 to easily trigger other sensors or appliances remotely.

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
- Support Milesight D2D protocol to enable ultra-low latency and directly control without gateway
- Function well with standard LoRaWAN® gateways and network servers
- Compliant with Milesight IoT Cloud and Milesight Development Platform

♦ Specifications

Wireless Transmission		
Technology	LoRaWAN [®] , Milesight D2D	
Antenna	Internal Antenna	
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	-137 dBm @300bps	
Mode	OTAA/ABP Class A	
Button		
Button	1 × External Press Button	
Button Mode	Short Press, Long Press, Double Press	
Others		
Button	1 × Reset Internal Button	
LED Indicator	1 × Status/Alarm Indicator	
Buzzer	1 × Buzzer	
Software		
Configuration	Mobile App via NFC or Downlink	
Advanced Feature	Milesight D2D Controller	
Physical Characteristi	ics	
Power Supply	1 × 1650 mAh ER14335 Li-SOCl ₂ battery	
D. H. 1:1. 2 (1000 :	Around 9.5 Years (SF7, EU868)	
Battery Life ² (1080-min	Around 7.7 Years (SF10, EU868)	
report interval, 10 presses per day, 25°C)	Around 9.3 Years (SF7, US915)	
	Around 7.1 Years (SF10, US915)	
Operating Temperature	-20°C ~ 60°C	
Relative Humidity	≤90% (non-condensing)	
Ingress Protection	IP30	
Housing	Anti-flaming Polycarbonate	
Color	White (Button: White/Red Optional)	
Weight	38.8g (Battery Included)	
Dimension	50 × 50 × 18 mm (1.97 × 1.97 × 0.71 in)	
	Button: Φ20 mm (Φ0.79 in)	
Installation	On the flat surfaces with screws or 3M tapes, Lanyard	

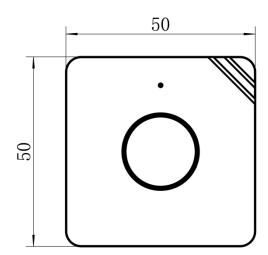
Approvals	
Regulatory	CE, FCC, LoRaWAN® Certified
Environmental	RoHS

¹: This product is intended to provide a convenient call or control function, but should not be used as the sole emergency response tool. In an emergency, you should take appropriate measures to ensure your own safety. For details please refer to <u>Disclaimer and Important Information</u>.

Ordering Information

Model	PN	Description
WS101	Scene	Button Color: White
	SOS	Button Color: Red

◆ Dimensions (mm)













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²: Tested under laboratory conditions and for guideline purposes only.