

WS301



Door and Window Contact

Simple installation and tamper detection

WS301 is a wireless LoRa contact switch.

WS301 can detect when windows or doors are opened and closed, or items being moved.

WS301 includes functionality that detect tampering of the unit.

WS301 comes with a LED for network status, open/close status, tamper and low battery indication.

WS301 is easily mounted on doors, windows, panes, cabinets and applied in smart homes, smart offices, schools, hotels, etc.

WS301 is equipped with NFC for Android mobile app configuration.

WS301 is compliant with standard LoRaWAN[®] gateways and network servers.



4 Years Service Life
30 Times Switching On/Off Per Day at SF10

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Wireless transmission

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

Measurement and interfaces

Detection distance	15-20 mm
Button	1 × Power button (Internal), 1 × Tampering button
Alarms	Open/Close Status, Tamper, Low Battery



Gateway UG65



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Physical characteristics

Power supply	1 × 1200 mAh ER14250 Li-SOCl ₂ battery
Battery life	7 years (30 triggers per day, SF7 for EU868) 4 years (30 triggers per day, SF10 for EU868)
Operating temp	-20°C to +60°C
Relative humidity	0% to 90% non-condensing
Ingress protection	IP30
Dimension	Sensor: 50 × 30 × 17 mm (1.97 × 1.18 × 0.67 in) Magnet: 30 × 17 × 8 mm (1.18 × 0.67 × 0.31 in)
Installation	On the flat surfaces with screws or 3M tape
Material	White anti-flaming polycarbonate

