Multifunctional Ultrasonic Distance Sensor

Featuring LoRaWAN®

EM400-MUD

EM400-MUD is a multifunctional ultrasonic distance sensor that mainly detects small-range areas and small blind spots. Besides a wide measuring range, EM400-MUD has equipped with three switchable pre-set modes including standard mode, trash bin mode, and parking lot mode for different applications. Featuring low power consumption LoRaWAN® technology, EM400-MUD can work for over 10 years with its two built-in 9000 mAh batteries.

Besides, EM400-MUD equips with a 3-axis accelerometer and temperature sensor to detect the status of devices. Compliant with Milesight LoRaWAN® gateway and Milesight IoT Cloud, users can know the container status and fill-in level in real-time via browser or mobile App remotely.

◆ Features

➢ 3-450 cm wide detection range with small blind zone

➢ Equipped with three pre-set modes for different applications

➢ Equipped with NTC temperature sensor for the detection and alarm of trash burning

➢ Built-in 3-axis accelerometer sensor to monitor device tilt status

➢ Damp-proof coating inside and IP67 waterproof enclosure for outdoor applications

➢ Built-in two 9000 mAh replaceable batteries and work for 10 years without replacement

➢ Ultra-wide-distance wireless transmission up to line of sight of 15 km

➢ Equipped with NFC for one touch configuration, support card emulation mode

➢ Function well with standard LoRaWAN® gateways and network servers

➢ Compatible with Milesight IoT Cloud

◆ Specifications

Wireless Transmission	
Technology	LoRaWAN®
Frequency	CN470/IN865/RU864/EU868/US915/AU915/KR920/AS923-1&2&3&4
Tx Power	16 dBm (868 MHz)/20 dBm (915MHz)/19 dBm (470MHz)
Sensitivity	-137dBm @300bps
Mode	OTAA/ABP Class A
Measurement	
Distance	
Detection Range	3 ~ 450 cm
Detection Accuracy	± (1+0.3%*S) cm (-15°C ~ 60°C), S=distance
Detection Resolution	1 mm
Device Position	
Status	Normal/Tilt
Temperature	
Range	-40 ~ 125°C
Resolution	0.1°C
Operation	
Power On & Off	NFC, Power Button (Internal)
Configuration	Mobile App (via NFC)
Physical Characteristics	
Power Supply	2 x 9000 mAh ER26500 Li-SOCL$_2$ Batteries
Battery Life*	Standard mode: > 10 years (10 min interval, 25°C) Bin mode: > 10 years (20 min interval, 25°C) Parking lot mode: 5 years (12 triggers per day, 25°C)
Operating Temperature	- 30°C ~ 70°C
Relative Humidity	≤95% (non-condensing)
Ingress Protection	IP67
Dimension	118 × 65 × 32.5 mm
Material & Color	ABS + PC (Flame Retardant), Black gray
Installation	On the Flat Surfaces with Screws

* Tested under laboratory conditions and for guideline purposes only.

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