

## EM300-MCS

**Magnet Switch Sensor** 



EM300-MCS is a compact magnet switch sensor for detecting open/close status of objects (such as doors or windows) and transmitting alarm using LoRaWAN® technology. With this low power consumption technology, EM300-MCS can work up to 5 years with 4000 mAh battery. Combining with Milesight LoRaWAN® gateway and Milesight IoT Cloud solution, users can manage all sensor data and remotely and visually and receive alarms via mobile App.

EM300-MCS also integrates temperature and humidity sensors, which has a great use for applications such as home and office automation, factories monitoring, etc.

## **♦** Features

- High sensitivity with door and window security detection
- Embedded with temperature and humidity sensors for environment monitoring
- Ultra-wide-distance transmission up to line of sight of 10km
- ▶ IP67 UV-resistant and waterproof enclosure for harsh environment applications
- > Built-in 4000 mAh replaceable battery and works for 5 years without replacement
- Equipped with NFC for easily configuration
- Compliant with standard LoRaWAN® gateways and network servers
- Quick and easy management with Milesight IoT Cloud solution

## Specifications

Wireless Transmissio				
Technology	LoRaWAN <sup>®</sup>			
Frequency	CN470/IN865/RU864/EU868/US915/AU915/KR920/AS923			
Tx Power	16dBm(868)/20dBm(915)/19dBm(470)			
Sensitivity	-137dBm @300bps			
Mode	OTAA/ABP Class A			
Measurement				
Door Magnet				
Detection Distance	20-30mm			
Cable Length	1.5m			
Temperature				
Range	-30°C to + 70°C			
Accuracy	0°C to + 70°C (+/- 0.3°C), -30°C to 0°C (+/- 0.6°C)			
Resolution	0.1°C			
Humidity				
Range	0% to 100% RH			
Accuracy	10% to 90% RH (+/- 3%), below 10% and above 90% RH (+/- 5%)			
Resolution	0.5% RH			
Operation				
Power On & Off	NFC, power button (Internal)			
Configuration	Mobile App(via NFC) or PC software (via USB Type-C)			
Physical Characteristics				
Power Supply	1 × 4000 mAh ER18505 Li-SOCL <sub>2</sub> battery (extendable to 2 batteries)			
Battery Life*	>5 years (10 min interval and alarm once every day, SF10)			
Operating Temperature	-30°C to +70°C			
Relative Humidity	0% to 100% (non-condensing)			
Ingress Protection	IP67			
Dimension	Transceiver: 105.6 × 85.3 × 27 mm (4.16 × 3.36 × 1.06 in)			
	Magnet: 32 × 15 × 8 mm (1.25 × 0.59 × 0.31 in)			
Installation	Wall Mounting			

<sup>\*</sup> Tested under laboratory conditions and for guideline purposes only.

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**LoRaWAN® Sensor/Controller LoRaWAN® Gateway Industrial 4G/5G Router** 





Compact Controller LoRaWAN® Controller Solenoid Valve Controller LoRaWAN® Gateway Industrial Cellular Router LoRaWAN® Sensor يُسِين ﷺ UR3x UR75 UC34xx/UC11xx AM100 EM300 EM500 UG65 UG67 UC501 UC511

Picture	Model	Measuring Range	Descriptions
◆ Milesight	EM300-TH-915M	Temperature -30°C ~ 70°C Humidity 0% ~ 100% RH	Temperature & Humidity Sensor  1 * 4000 mAh Li-SOCL2 battery (8000 mAh optional)  NFC enabled IP67 rated
◆ Ministry	EM300-MCS-915M	Detection Distance 20 ~ 30mm  Temperature -30°C ~ 70°C  Humidity 0% ~ 100% RH	Magnetic Contact Switch  1 * 4000 mAh Li-SOCL2 battery (8000 mAh optional)  NFC enabled IP67 rated
<b>♦</b> Mlesigte	EM300-SLD-915M	Trigger Condition when water level reaches 5mm  Temperature -30°C ~ 70°C  Humidity 0% ~ 100% RH	Spot Leak Detection Sensor 1 * 4000 mAh Li-SOCL2 battery (8000 mAh optional) NFC enabled IP67 rated
<b>♦</b> Minight	EM300-ZLD-915M	Trigger Condition when water level reaches 5mm  Temperature -30°C ~ 70°C  Humidity 0% ~ 100% RH	Zone Leak Detection Sensor  1 * 4000 mAh Li-SOCL2 battery (8000 mAh optional)  NFC enabled IP67 rated

"-915M", "-868M", "-470M" in the model refers to different LoRaWAN Frequency in option for different countries/regions, (e.g.)

"-915M": KR920/AS923/AU915/US915

"-868M": RU864/IN865/EU868

"-470M": CN470

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