

# EM300-MCS



## Temperature, Humidity & Magnet Switch

Attractive and Compact Design for Indoor and Outdoor usage

AM300-MCS is measuring

- Temperature
- Humidity
- Open/Close status

AM300-MCS supports a wide temperature operating range and IP67 enclosure that makes it ideal for application in harsh environments.

AM300-MCS is widely used in public, commercial and industrial buildings detecting open/close status of doors, windows, cabinets, etc.

AM300-MCS applies 1 × 4000 mAh battery and is expandable to 2 batteries, providing more than five-year battery life.

AM300-MCS is equipped with NFC for easy mobile app configuration (Android and iOS).

USB-C and NFC is available for configuration via Notebook.

AM300-MCS is compliant with standard LoRaWAN<sup>®</sup> gateways and network servers

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## Temperature, Humidity & Zone Leakage

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### Wireless transmission

Technology	LoRaWAN®
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

### 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

### Magnetic switch

Detection distance	20mm
Cable length	1.5m

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### Physical characteristics

Power supply	1 × 4000 mAh ER18505 Li-SOCL2 battery Extendable to 2 batteries
Battery life at 10 min interval	>5 years (SF10) For guideline purposes only!
Operating Temp.	-30°C to +70°C
Relative humidity	0% to 100% non-condensing
Ingress protection	IP67
Dimension	88.5 × 85.3 × 27 mm (3.48 × 3.36 × 1.06 in)
Installation	Wall mounting

### EM300 family members



**EM300-TH**  
Temperature and humidity measurement



**EM300-ZLD**  
As EM300-TH plus zone leakage detection



**EM300-SLD**  
As EM300-TH plus spot leakage detection

You will find details on the above EM300 variants at our web-site [www.singgotech.com](http://www.singgotech.com)