

# EM300-ZLD

## Zone Leak Detection Sensor Featuring LoRaWAN®



### ◆ Monitoring with Simple & Significant Data

EM300-ZLD is a compact zone leakage detection sensor for detecting large area presence of water (or other liquids) and transmitting alarm using LoRaWAN® technology. With this low power consumption technology, EM300-ZLD 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 remotely and visually and receive alarms via mobile APP. EM300-ZLD also integrates temperature and humidity sensors, which has a great use for applications such as pipe leakage monitoring, basement flooding and pump failure.

### ◆ Features

- Detect the presence of liquids by a long cable and based on the conductive principle
- 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 more than 5 years without replacement
- Store locally 3, 000 historical records and support retransmission to prevent data loss
- Support Milesight D2D protocol to enable ultra-low latency and direct control without gateways
- 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 Transmission

Technology	LoRaWAN®, Milesight D2D
Frequency	CN470/IN865/RU864/EU868/US915/AU915/KR920/AS923-1&2&3&4
Tx Power	16dBm(868 MHz)/20dBm(915 MHz)/19dBm(470 MHz)
Sensitivity	-137dBm @300bps
Mode	OTAA/ABP Class A

### Measurement

#### Leakage Detection

Liquid Type	Conducting liquid
Trigger Condition	When liquid level reaches 5mm
Detection Cable	3m (Customizable)

#### 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	NFC Configuration via Mobile App
Advanced Feature	Milesight D2D Controller, Data Storage, Data Retransmission

### Physical Characteristics

Power Supply	1 × 4000 mAh ER18505 Li-SOCL <sub>2</sub> Battery (extendable to 2 batteries)
Battery Life*	10 years (10 min interval + 24 triggers per day)
Operating Temperature	-30°C to +70°C
Relative Humidity	0% to 100% (non-condensing)
Ingress Protection	IP67
Dimension	105.6 × 85.3 × 27 mm (4.16 × 3.36 × 1.06 in)
Installation	Wall Mounting

Approvals	
Regulatory	CE, FCC
Environmental	RoHS

\* Tested under laboratory conditions and for guideline purposes only.

To alert the support team about any issues you are experiencing, please send an email to or create a ticket in our support platform. Please click here: [technical@bmetersuk.com](mailto:technical@bmetersuk.com)

The support team will get back to you as soon as possible.



[technical@bmetersuk.com](mailto:technical@bmetersuk.com)



[www.bmetersuk.com](http://www.bmetersuk.com)



01157 722 506