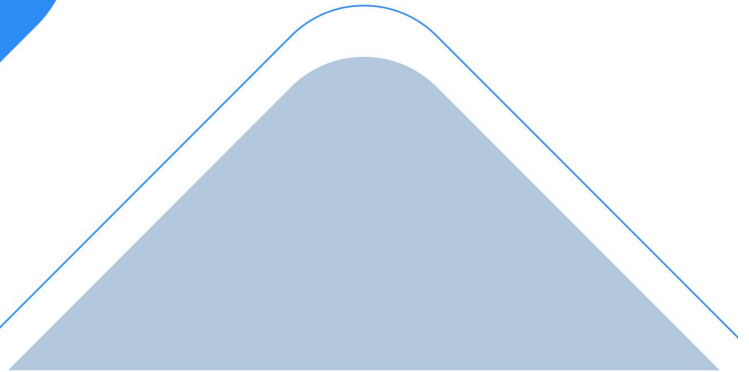


# EM500-LGT

## Light Sensor



EM500-LGT is designed for measuring light in harsh environments and transmitting data using LoRaWAN® technology. With this low power consumption technology, EM500-LGT can work up to 10 years with 19000 mAh battery. Combining with Milesight LoRaWAN® gateway and Milesight IoT Cloud solution, users can manage all sensor data remotely and visually.

EM500-LGT is widely used for outdoor applications like smart agriculture, urban lighting, etc.

### ◆ Features

- Wide measuring range and high precision
- Ultra-wide-distance transmission up to line of sight of 10km
- IP66 waterproof enclosure for harsh environment applications
- Built-in 19000 mAh replaceable battery and work for 10 years without replacement
- Equipped with NFC for easy configuration
- Compliant with standard LoRaWAN® gateways and network servers
- Quick and easy management with Milesight IoT Cloud solution

### ◆ Applications

- Smart buildings
- Urban lighting
- Greenhouse control
- Smart agriculture
- Weather monitoring

## ◆ Specifications

### Wireless Transmission

Technology	LoRaWAN®
Frequency	CN470/IN865/RU864/EU868/US915/AU915/KR920/AS923
Tx Power	16dBm(868)/20dBm(915)/19dBm(470)
Sensitivity	-147dBm @300bps
Mode	OTAA/ABP Class A

### Measurement

Range	0 - 100000 lux
Accuracy	±3%
Resolution	1 lux

### Operation

Power On & Off	NFC, power button (Internal)
Configuration	Mobile APP(via NFC) or PC software(via USB Type-C)

### Physical Characteristics

Cable Length	3 m
Power Supply	19000 mAh Li-SOCL <sub>2</sub> battery (ER34615)
Battery Life*	4 years (10 min interval, SF12) >10 years (10 min interval, SF7)
Operating Temperature	-30°C to +60°C
Relative Humidity	0% to 100% (non-condensing)
Ingress Protection	IP66(Transceiver)/IP65(Light Sensor)
Dimension	Transceiver: 105.4 × 71 × 69.5 mm (4.1 × 2.8 × 2.7 in) Light Sensor: 64 × 58 × 34 mm (2.5 × 2.3 × 1.3 in)
Installation	Pole, wall or DIN Rail Mounting

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

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Milesight



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



Industrial Cellular Router



LoRaWAN® Sensor



LoRaWAN® Gateway



Compact Controller



LoRaWAN® Controller



Solenoid Valve Controller



Picture	Model	Measuring Range	Descriptions
	EM500-UDL-915M-W050	0.3 ~ 5m	<b>Ultrasonic Distance/Level Sensor</b> 19000 mAh Li-SOCl2 battery Resolution: 1 mm NFC enabled IP66 rated
	EM500-UDL-915M-W100	0.5 ~ 10m	
	EM500-PT100-915M-T500	-200~50°C	<b>Temperature Sensor - PT100</b> 19000 mAh Li-SOCl2 battery NFC enabled IP66 (IP67 as required)  The default sensor head type is straight tube, other types include armored, SMT, threaded, and magnet.  *Customizable cable length, default 1.5m *Customizable temperature (-200~800 °C)
	EM500-PT100-915M-T500	-50~500°C	
	EM500-PT100-915M-T800	-50~800°C	
	EM500-PT100-915M-T800	-50~800°C	
	EM500-SWL-915M-L003	3m	<b>Submersible Water Level Sensor</b> 19000 mAh Li-SOCl2 battery NFC enabled IP66 rated  Customizable measuring range up to 200m, cable should be 1-1.5m longer than measuring range.
	EM500-SWL-915M-L005	5m	
	EM500-SWL-915M-L010	10m	
	EM500-LGT-915M-RF	0 ~ 100000 lux	<b>Light Sensor</b> 19000 mAh Li-SOCl2 battery NFC enabled IP66 rated
	EM500-SMT-915M-EC5	Moisture 0% ~ 100% RH	<b>Soil Sensor</b> 19000 mAh Li-SOCl2 battery NFC enabled IP66 rated
	EM500-SMT-915M-MEC20	Temperature -40°C ~ 80°C Moisture 0% ~ 100% RH Electrical Conductivity 0 ~ 20000 µS/cm	
	EM500-CO2-915M	CO2 400 ~ 8000 ppm Temperature -40°C ~ 70°C Humidity 0% ~ 100% RH Barometric Pressure 300 ~ 1100 hPa	
	EM500-PP-915M-G1/4F-4780	0 ~ 1.6 MPa	<b>CO2 Sensor (H in 1)</b> 19000 mAh Li-SOCl2 battery NFC enabled IP66 rated  Built-in temperature, humidity and barometric pressure sensors
	EM500-PP-915M-G1/4F-4780	0 ~ 1.6 MPa	<b>Pipe Pressure Sensor</b> 19000 mAh Li-SOCl2 battery NFC enabled IP66 rated

Remark:

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

\*-915M\*: EIRMS400/915.2/915.2/915.2/5

\*-868M\*: RU864/868/868/868

\*-470M\*: CN470

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