

# EM500-LGT



## Light sensor

**Designed for Harsh Environments and Long Battery Life**

EM500-LGT is designed for light measurement in harsh environments with its P66 enclosure design.

EM500-LGT is applied for measurement of light within smart buildings, urban lighting, greenhouses, agriculture, weather stations, etc.



EM500-LGT applies one replaceable 19000 mAh battery, providing up to 10-year battery life.

EM500-LGT is equipped with NFC for mobile app configuration (Android and iOS).

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

EM500-LGT is compliant with standard LoRaWAN<sup>®</sup> gateways and network servers

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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

### Light measurement

Range	0 - 100000 lux
Accuracy	±3%
Resolution	1 lux
Overload	150% FS
Long-term stability	± 0.3% FS/year
Process connection	G 1/2" Male



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### Physical characteristics

Cable length	3 m
Power supply	One 19000 mAh Li-SOCL2 battery (ER34615)
Battery life at 10 min interval	>10 years (SF7) ~4 years (SF12) For guideline purposes only!
Operating Temp.	-30°C to +60°C
Relative humidity	0% to 100% non-condensing
Ingress protection	Transceiver: IP66, Light sensor: IP65
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 and DIN-rail mounting

