

# EM500-UDL



## Ultrasonic Distance

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

EM500-UDL is designed for distance measurement in harsh environments with its P66 enclosure design.

EM500-UDL is applied for measurement of distance in a wide range of applications monitoring water levels, flooding, level and depth in tanks, snow levels, smart agriculture fill levels in conjunction with grain, fertilizer and pellets silos, etc.

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

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

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

EM500-UDL 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	-147dBm @300bps
Mode	OTAA/ABP Class A

### Measurement

Range	0.3 - 5m/0.5-10m
Accuracy	±1% FS
Resolution	1 mm



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### Physical characteristics

Power supply	One 19000 mAh Li-SOCL2 battery (ER34615)
Battery life at 10 min interval	>10 years (SF7) ~5.5 years (SF12) For guideline purposes only!
Operating Temp.	-30°C to +65°C
Relative humidity	0% to 100% non-condensing
Ingress protection	IP66
Dimension	156.1 × 71 × 69.5 mm (6.1 × 2.8 × 2.7 in)
Installation	Pole, wall and DIN-rail mounting