

IOT-S500UDL

LoRaWAN Wireless Water Detection Sensor for Zone Water Leak Detection



Outstanding Features

This LoRaWAN Wireless IOT sensor provides high accurate distance measurement for a variety of applications in harsh environments like flood monitoring, waster water management, fill level monitoring in grains or fertilizer. The measurement is based on ultrasonic waves transmitted and reflected back from nearby objects.

- Measuring ranges from 0.3m to 10m
- Measurements in very small containers or openings
- Suitable for measuring benign and chemical mediums
- Non-contact detection for any corrosive liquid chemicals or combustibles
- IP67 waterproof
- LoRaWAN® Wireless transmission
- Up to 10 Years Battery Life
- NFC wireless for easy configuration

Specification

Wireless Transmission	
Technology	LoRaWAN®
Antenna	Internal Antenna
Frequency	CN470/IN865/RU864/EU868/US915/AU915/KR920/AS923-1&2&3&4
Tx Power	16dBm(868MHz)/20dBm(915MHz)/19dBm(470MHz)
Sensitivity	-137dBm @300bps
Mode	OTAA/ABP Class A
Measurement	
Range & Accuracy	W050: 0.3 - 5 m, ±1% FS W100: 0.5 - 10 m, ±1% FS C050: 0.25 - 5 m, ± (1+0.3%*S) cm, S=distance C100: 0.25 - 10 m, ± (1+0.3%*S) cm, S=distance
Resolution	1 mm
Others	
LED	1 × LED Indicator (Internal)
Button	1 × Power/Reset Button (Internal)
USB	1 × USB Type-C(Internal) for Configuration and Console
Software	
Power On & Off	NFC, Power Button (Internal)
Configuration	Mobile App(via NFC), PC software(via USB Type-C), Downlink
Advanced Feature	Data Storage (1,000 entries), Data Retransmission, Data Retrievability, Threshold Alarm, Change Alarm, Milesight D2D Controller
Physical Characteristics	
Power Supply	1 × 19000 mAh ER34615 Li-SOCL ₂ Battery
Battery Life*	10 years (10 min interval, 25°C)
Operating Temperature	W050/W100: -30°C to +65°C C050/C100: -15°C to +60°C
Relative Humidity	0% to 80% (non-condensing)
Ingress Protection	IP67

**Disclaimer: Technical specifications may subject to change without prior notice*

Housing	ABS + PC
Color	Black grey (C050/C100), Grey (W050/W100)
Weight	C050/C100: 362.7g, W050/W100: 370.4g (With Battery and Mounting bracket)
Dimension	156.1 × 71 × 69.5 mm (6.1 × 2.8 × 2.7 in)
Installation	Pole, Wall or DIN Rail Mounting

Approvals

Regulatory	CE, FCC, ISED, Telec, LoRaWAN® Certified
EMC	EN 55032, EN 55035
EMS	IEC 61000-4-2 Level 3, IEC 61000-4-3 Level 2, IEC 61000-4-8 Level 4
Radio Frequency	FCC Part 15B, FCC Part 15.247, EN 300 330, EN 301 489-1/3, EN 300 220-1/2
Safety	EN62368-1
Environmental	RoHS

Dimension

