



Lora PIR Sensor

Long-Range Rodent Detection Sensor

Product Overview

The **Bastet LoRa Trap Status Sensor (Model LOTSS01-LORA01)** is a robust, digital input device designed for monitoring the active status of physical rodent traps over an extensive distance. By connecting to a mechanical switch or sensor on the trap, it transmits immediate "Trap Sprung" or "Capture Event" notifications using the long-range, low-power LoRaWAN network. The device's weatherproof IP67 rating and multi-year battery life make it ideal for deployment in harsh outdoor or challenging industrial environments, ensuring continuous, reliable status monitoring without manual checks.

Key Features

- **Digital Status Input:** Easily connects to the trap mechanism to monitor binary states (e.g., set/sprung, open/closed) via a digital interface.
- **LoRaWAN Connectivity:** Provides ultra-wide-distance wireless transmission up to line of sight of 10km, minimizing the need for local repeaters.
- **Extreme Durability:** Features an IP67 waterproof and dustproof enclosure, making it suitable for both indoor and severe outdoor applications.
- **Environmental Monitoring:** Embedded temperature and humidity sensors provide essential environmental context to optimize trap placement and monitoring.
- **Ultra-Long Battery Life:** Powered by a high-capacity 4000 mAh battery, offering an estimated lifespan of 5 years, dramatically reducing maintenance frequency.

Technical Specifications

Parameter	Specification
Product Name	LoRa Trap Status Sensor (Digital Input)
Model Code	LOTSS01-LORA01 (Based on EM300-DI)
Communication Protocol	LoRaWAN, LoRa D2D
Antenna	1× Built-in Internal Antenna
Status Input	Digital Input (Connects to external trap switch/sensor)
Temperature Range	−30°C to +70°C
Humidity Range	0% RH to 100% RH
Power Source	1 × 4000 mAh ER18505 Li-SOCL2 Battery
Estimated Battery Life	≈ 5 Years (10 min interval, 25°C)
Operating Temperature	−30°C to +70°C
Ingress Protection	IP67
Configuration	NFC Configuration via Mobile App
Warranty	12 Months
