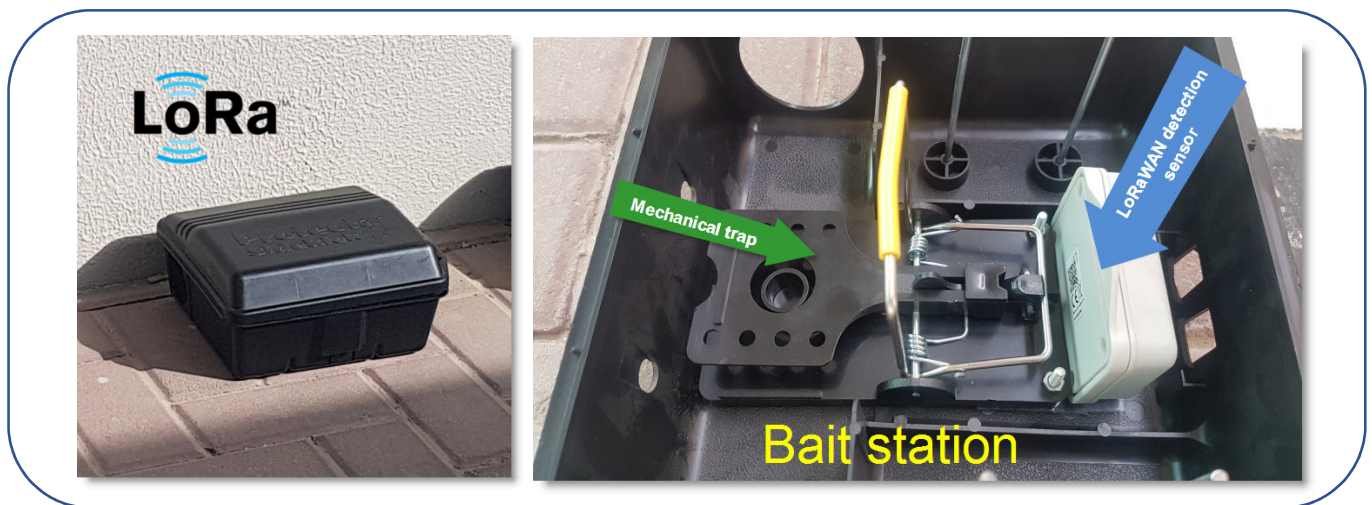


LORAWAN RODENT DETECTION SENSOR



The **STREGA LoRaWAN Rodent capture detection sensor** detects the capture of a rodent from a trap action detection and sends an immediate alarm to the Gateway and the Control Center for removal and rearm.

- ✓ Rodent trap action detection with direct LoRa transmission
- ✓ Daily keep alive info with battery status
- ✓ Cost effective solution
- ✓ Energy efficient: battery operated for 6+ years autonomy
- ✓ Works both on operated and private LoRaWAN networks (no cloud service required)



STREGA Rodent capture detection system for mouse and rat is designed around a sophisticated industrial grade sensor assembled to a mechanical rat trap.

This extreme range wireless solution is running on LoRaWAN technology, is low cost and low power while designed for outdoor applications.

The sensor is coupled with a temperature sensor for environmental conditions and a push button for activation or debug frame emission. The **STREGA Rodent capture detection sensor** is compatible with operated and private LoRa networks and integrates many filtering conditions to make capture sensing very accurate.

The sensor with its replaceable AA battery and its ultra-low power consumption allow more than 6 years autonomy. The sensor can operate outdoor in harsh temperature environment up to +70°C. The **STREGA Rodent capture detection sensor** has a small footprint (75x22x50mm) and is delivered within a waterproofed IP68 casing. It is securely fastened on the rat trap.

- ⇒ **Universal**: compliant with majority of rat and mouse traps and bait stations
- ⇒ **Plug & Play**: installation in less than 2 minutes
- ⇒ **Long range**: strong signal penetration (even within urban areas)
- ⇒ **Accurate**: monitors real trap operation
- ⇒ **Secure**: data encrypted from trap to concentrator and from concentrator to server
- ⇒ **Battery autonomy**: ultra-low power with 6+ years autonomy

TECHNICAL SPECIFICATIONS

Mechanical Rat Trap	Protocol - Network
Material: ABS base Weight: 87g Dimension: 15*7.6*6.5cm	LoRa 1.0 Class A, Class C (compatible) LoRa sensitivity: -137 dBm Compliant with STREGATE Gateway
Functionality	Casing
Capture detection sensor Temperature sensor (+/-1°C)	Polyamide 6.6 (PA 66) material 2m drop resistant Dimensions: 75mmx50mmx22mm Fastening by rivet to the mechanical trap
Electronics	Environmental
Industrial grade status capture sensor Temperature sensor Flash: 256KB - RAM: 32KB Lithium battery 1x RGB LED - 1x Push button	Storage temperature: -40°C to +85°C Working temperature: -20°C to +70°C CE marking Indoor & outdoor use (IP68)

