



Short Description:

The traptice® rodent + PIR is an smart IoT sensor for pest monitoring with LoRaWAN® connectivity.

It combines multiple sensors – magnetic, vibration, humidity, temperature, and PIR – to precisely detect movements and environmental conditions. Thanks to its compact design and flexible mounting options, the sensor can be easily integrated into compatible mouse tunnels or bait boxes without obstructing the tunnel view. Alternatively, it can be used as a standalone PIR sensor.

Configuration is conveniently carried out via NFC using the WAINS traptice® Companion App.

With its energy-efficient technology, the device offers a battery life of up to 2 years and stands out with its robust design, making it ideal for demanding operating environments.



traptice® service desk

Documentation /

Quick Guide

Included items:



1x traptice® rodent + PIR sensor

2x Magnetic holders

2x Phillips-head screws

1x CR2450 coin cell battery

Mouse tunnels, mouse traps, rat boxes, and rat traps are available separately.

Key Features:

Multi-Sensor Technology for Precise Monitoring

PIR, magnetic, vibration, temperature, and humidity sensors provide comprehensive environmental analysis.

Energy-Efficient Operation

Long battery life (up to 2 years) thanks to optimized power management and LoRaWAN® connectivity.

Flexible Mounting Options

Can be mounted directly on walls or ceilings, or integrated into compatible tunnel and bait box systems.

Rugged, Compact Design

Made of UV-resistant, industrial-grade ABS plastic, offering protection comparable to IP65 for harsh environments.

Optimized Motion Detection

PIR sensor with a 140° / 120° detection angle and adjustable range of up to 5 meters.

Reliable Wireless Data Transmission

Secure communication via LoRaWAN®, seamlessly connecting to the WAINS Cloud.

Easy Setup via NFC

Quick and convenient configuration using the WAINS traptice® Companion App.

Technical Data Sheet

traptice® rodent + PIR

V2026_1.2 Created: 25 March 2026

Wireless Transmission	
Technology	LoRaWAN® (certification pending); NFC
Frequency	868 MHz (exact: 863–870 MHz) – standard frequency for LoRaWAN® in Europe
Tx Power	14 dBm
Dimensions	
Length × Width × Height	56.75 × 50 × 20.5 mm (without PIR)
Weight	35 g
Housing	UV-resistant, industrial-grade ABS plastic
Ingress Protection	Comparable to IP65*
Sensors	
PIR Sensor	Passive infrared sensor
Detection angle PIR lens	140° / 120°
Detection distance PIR lens	approx. 5 m (testing pending)
Magnetic Sensor	Contactless Hall sensor technology
NFC Interface	Connection to smartphone/tablet for installation
Additional Sensors	
Temperature sensor / Humidity sensor / Vibration sensor	Measurement values optional; by default, these values are not transmitted to reduce daily MEAs. Transmission can be enabled if required.
Environmental Conditions	
Operating temperature	-10 °C to +40 °C
Storage temperature	-20 °C to +60 °C
Humidity	0 % to 75 % relative humidity (non-condensing)
Power Supply	
Battery type	CR2450 3V Lithium Manganese Dioxide (LiMnO ₂)
Expected battery life	Up to 2 years (depending on configuration and environment)
Compatible / Approved CR2450 battery models	Varta CR2450P; Varta CR2450; Duracell CR2450; Renata CR2450N



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Certifications / Standards

Required	CE, WEEE (WEEE-No.: DE19995933 BatteryRegNo.: 36449725)
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*The electronics housing is designed to meet IP65 protection class. The rear battery compartment cover is, due to its design, only splash-proof. When the device is mounted in the designated tunnel, the battery compartment is enclosed by the tunnel. Under this condition, the complete system can meet the requirements of IP65. Compliance with the protection class requires correct and tight installation within the tunnel.



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