

MOSS Indoor

Technical Specification

Operation Principle

Each sensor contains internal rechargeable lithium battery with operation time from 6 weeks to 3 years (depending on sensor type). The wireless communication is RF-UHF with LoRa technology, providing up to 250m range in urban environments. Upon detection, sensors send alerts to a smartphone-based receiver.

Wireless Communication

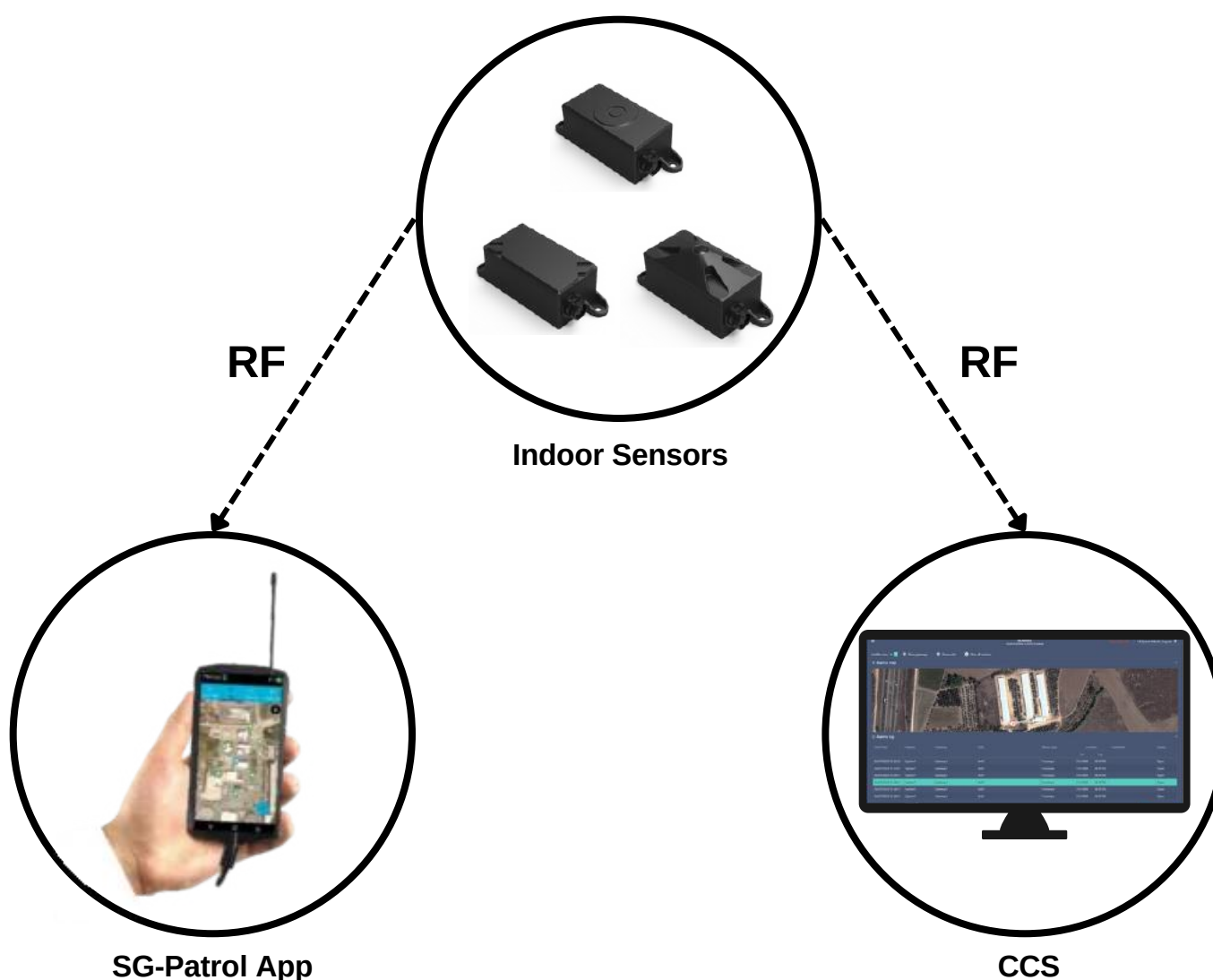
The MOSS transmits alarms using RF-UHF communication. In order to save battery life, the RF transceiver is usually shutdown and turned on only for alarm transmission. The network topology is STAR topology which ensures minimal delay between alarm detection by sensor and recipient of alarm on the wireless receiver for display on SG Patrol App.



Overview

SensoGuard MOSS (Mobile Operations Sensors System) was designed to assist in mobile/tactical applications which require immediate security solution. Our Tactical wireless sensors provide immediate complete 360° situational awareness by using a combination of Outdoor and Indoor sensors.

The MOSS Kit can be installed in few minutes, and doesn't require power or communication infrastructure to operate. Designed for Military, LEA's, VIP protection and security guards.



Key Features

- Ultra low power consumption
- Maintenance free operation
- Plug & play installation
- MTBF= 100,000 hours

TACT-PIR

Technical Specification

Detection Capabilities

Detection Range	10m / 32.8ft
Field of View (FOV)	90°

Communication

RF Frequency	433Mhz (Default), 868/915Mhz (Optional)
Network Protocol	LoRA (Long Range) low-power wide-area network
Transmission Range	Up to 250m (Indoor)

Environmental & Power

IP Rating	IP67 (MIL-STD 810G)
Operating Temperature	-40°C to 85°C / -40°F to 185°F
Battery Life	Up to 6 months (rechargeable)
Power Consumption	~2.9mW (0.8mA @ 3.6V)

Physical Specifications

Dimensions	32mm x 40mm x 75mm / 1.2" x 1.5" x 2.9"
Weight	150g / 0.33lbs



Overview

TACT-PIR is a high-performance thermal sensor designed for accurate motion detection. With its compact and durable design, it's ideal for a wide range of indoor applications.



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TACT-RADAR

Technical Specification

Detection Capabilities

Detection Range	5m / 16.4ft
Field of View (FOV)	360°

Communication

RF Frequency	433Mhz (Default), 868/915Mhz (Optional)
Network Protocol	LoRA (Long Range) low-power wide-area network
Transmission Range	Up to 250m (Indoor)

Environmental & Power

IP Rating	IP67 (MIL-STD 810G)
Operating Temperature	-40°C to 85°C / -40°F to 185°F
Battery Life	Up to 6 weeks (rechargeable)
Power Consumption	~11mW (3mA @ 3.6V)

Physical Specifications

Dimensions	32mm x 40mm x 75mm / 1.2" x 1.5" x 2.9"
Weight	150g / 0.33lbs



Overview

TACT-RADAR is a cutting-edge motion sensor engineered for discreet placement, ensuring security without compromising aesthetics. Ideal for various applications, it offers reliable motion detection in a compact form



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MINI-VIB

Technical Specification

Version 1.2 | March 2025

Detection Capabilities

Detection Range (Hard Surface)	10m / 32.8ft radius
Detection Capabilities	Hits/Vibration/Drill

Communication

RF Frequency	433Mhz (Default), 868/915Mhz (Optional)
Network Protocol	LoRA (Long Range) low-power wide-area network
Transmission Range	Up to 250m (Indoor)

Environmental & Power

IP Rating	IP67 (MIL-STD 810G)
Operating Temperature	-40°C to 85°C / -40°F to 185°F
Battery Life	Up to 3 years (rechargeable)
Power Consumption	~0.3mW (0.1mA @ 3.6V)

Physical Specifications

Dimensions	32mm x 40mm x 75mm / 1.2" x 1.5" x 2.9"
Weight	150g / 0.33lbs



Overview

MINI-VIB sensor is designed for versatile monitoring of vibrations, impacts, and drilling attempts on gates, containers, and other structures. It combines advanced detection technology with robust design features



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Wireless Phone Receiver (Type C)

Technical Specification

Communication

RF Frequency	433Mhz (Default), 868/915Mhz (Optional)
Network Protocol	LoRA (Long Range) low-power wide-area network
Transmission Range	Up to 1Km

Environmental & Power

IP Rating	IP67
Power Consumption	16mA

Physical Specifications

Dimensions (Without Antenna)	157mm x 42mm x 66mm / 6.1" x 1.6" x 2.5"
Weight	35g / 0.08lbs



Overview

This Wireless Phone Receiver is an innovative solution for real-time security monitoring, offering robustness, portability, and ease of use for on-the-go surveillance.

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