

## EMS Series

# A Best Practice Guide

## Executive summary

We created this paper to our customers and other stakeholders with the purpose to inform, facilitate, and optimize the installation and use of ELSYS sensors to help achieve the most enjoyable experience with our sensors.

In this paper, we will go over some good-to-know-information regarding sensor features and the installation process.

Strategically placed sensors can help you collect valuable information about your facility. With this information at hand, you can better allocate your resources, optimize staffing, reduce costs, monitor your indoor climate, monitor room and desk occupancy, movement, and more.

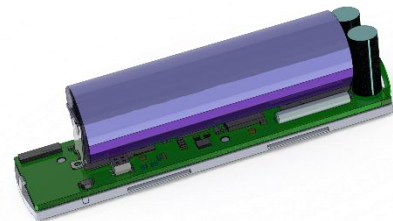
One of the many advantages of using ELSYS sensors is that they are battery-driven. There is no need for wiring or other expensive start-up costs. All ELSYS sensors have replaceable batteries with a battery life of up to ten years.

## EMS Series

The EMS Series are very subtle sensors with a size slightly larger than an AA-battery. The EMS is an indoor sensor perfect for Smart Building Management.

With the EMS, you can monitor temperature, humidity, opening activity, acceleration, and water leak detection.

- Avoid placing the sensor near metal and air ventilation.
- Keep in mind your data of interest when placing the sensor and choose a location according to this. For example, avoid placing the sensor near heat sources for accurate temperature-readings.
- All our sensors are compatible with any LoRaWAN® server and LoRaWAN® gateway.

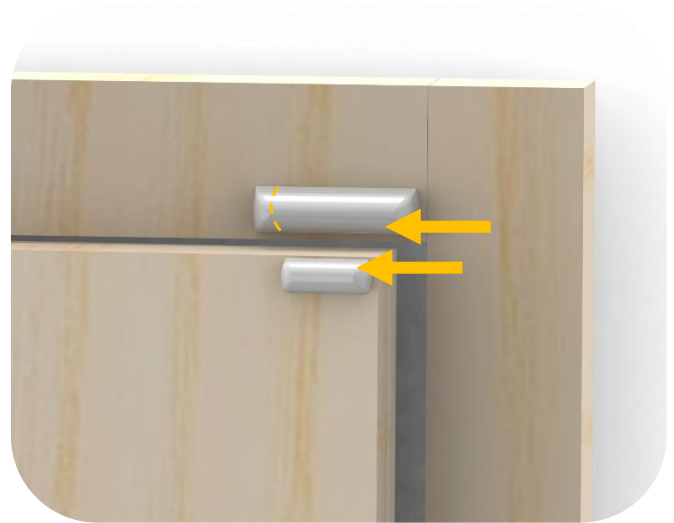


## Features

### Door Switch

When mounting the sensor and magnet, the placing is essential. The reed switch is on the end of the sensor *without* the stripe. The magnet needs to face this side of the sensor (see image).

If you have a metal door and frame, try to create a distance between the metal and the sensor: larger distance equals better RF performance.



If you have double doors, mount the sensor on one door and the magnet on the other. This way, you will get the correct number of openings regardless of which door is used.



### Water Leak Detection

The EMS has sensing elements on the bottom of the sensor, place the sensor so that the sensing elements come in contact with the possible leak area (see image).

