

LoRa-WAN wireless room sensor

ERS

- Temperature
- Humidity
- Motion
- CO2 (optional)
- Light
- NFC for easy configuration

Size: 86 x 25.5 x 86 mm

Accuracy: $\pm 0.5^{\circ}\text{C}$, $\pm 2\%rh$, $\pm 45ppm$

Resolution: 0.1°C , $0.1\%rh$, $1ppm$

Approx. range: 8km*

Battery life: 10 years**

The ERS room sensor module continuously reports measurements to a receiver with a configurable interval. The sensor can also be configured to report a number of previous measurements at every transmission.

All sensor modules have a global unique EUI--64 serial number.

The module is powered by lithium batteries, and the battery status is reported back to the receiver.

* LoRa™ modulation SF10

** Depending on interval



ERS is a LoRaWAN™ room sensor for measuring indoor environment. ERS is enclosed in a room sensor box and it is designed to be wall mounted.

Inside the ERS you will find five internal sensors: temperature sensor, humidity sensor, light sensor, CO2 sensor(optional) and a motion sensor (PIR). ERS is powered by two 3,6V AA lithium battery.

The Battery life is estimated to be up to 10 years but depends on sample interval, transmit interval, data rate and environmental factors.

All Elsys sensors are equipped with NFC (Near Field Communication) for easy configuration with an Android phone. With application "Sensor Settings", you can change sample rate, data rate, encryption keys, triggers, activation and much more.

