

## LoRa-WAN wireless sensor module

### ESM5k

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

Size: 60x35x20

Accuracy:  $\pm 0.5^{\circ}\text{C}$ ,  $\pm 2\%rh$ ,  $\pm 100mg$

Resolution:  $0.1^{\circ}\text{C}$ ,  $0.1\%rh$ ,  $15.6mg$

Approx. range: 8km\*

The ESM5k 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 a lithium battery, and the battery status is reported back to the receiver.

\* (LoRa™ modulation SF10)

\*\* Depending on interval



ESM5k is a small LoRaWAN™ sensor enclosed in a small ABS box (60x35x20mm). Inside the ESM5k you will find four/five internal sensors: temperature sensor, humidity sensor, light sensor and an accelerometer. It can also be fitted with a PIR motion sensor (MOQ=100). ESM5k is powered by 3,6V 1/2 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.

