ineo·sense
BRINGING SENSE TO WIRELESS

# ESG-LOGGER-HYGRO®

## MONITORING HUMIDITY AND TEMPERATURE

Clover-Net

LoRaWAN™

## USE CASE

### Storage area

Compliant with storage standards. Measures temperature and humidity of your storage areas. Autonomously and easily implemented.

### Industrial process

Monitors your paint booths, ovens, heating processes and only go back up to the essentials. If there is an anomaly, refers to the records of our ESG-Logger.

### COLD CHAIN BREACH

Monitors your cold chain without any special connectivity. Once you arrive at destination, check the history of our ESG-Logger and check that there has been no breakage.

## PRODUCT HIGHLIGHTS

### AUTONOMOUS AND WIRELESS

ESG-Logger can be installed anywhere without worrying about wiring, indoor and outdoor. Its magnet installation is simple, fast and automatic.

### SET AS YOU WISH

Set up of the ESG-Logger can be adjusted as required, locally or remotely if LPWAN connectivity is available.

### IDENTIFICATION BY LED

A bi-color LED allows you to know the condition of the product, facilitates its installation and alerts you in case of an anomaly.

### OPTIMIZED ALGORITHM for more than 10 years of battery life depending on the use case.

### TIME-STAMPING AND DATALOGGING OF EVENTS (+8000)

### REPLACEABLE BATTERY

### OPTIONS AVAILABLE:

- Specific sensor on demand,
- Anti-snatching,
- Customization on request:
    - Case color and labeling,
    - Specific business features.
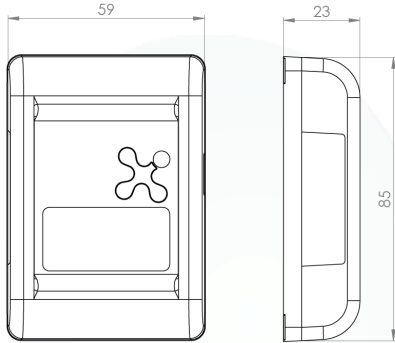
### CLOVER-NET TECHNOLOGY

Clover-Net

Real-time two-way communication protocol to facilitate the installation and setting of sensors, collection of time-stamped data, automatic inventories, OTA updates...
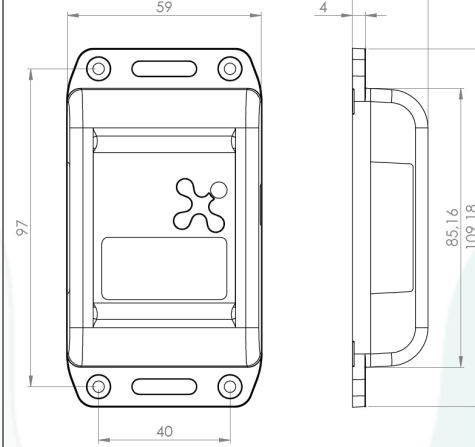
# SPECIFICATIONS

## Mechanical specificities

Without flanges



With flanges



## Fastening system

| |
|---|
| Screw |
| Magnet (optional) |
| Glue |

## Certifications

| |
|---|
| CE, EN 300-220 |

## Physical characteristics

| | |
|---|---|
| Battery | Lithium 3.6Ah replaceable |
| Material | ABS PC V0 UL94 |
| Weight | 110 g |
| IP index | IP55 or IP67  (with seal) |
| IK index | IK07 or IK08  (with seal) |
| Operating Temperature | -20°C to 70°C |
| Storage Temperature | -40°C to 80°C |
| Humidity | < 95% without condensation |

⚠ **CAUTION: THIS PRODUCT USES LITHIUM BATTERY.**
FOR YOUR SAFETY, PLEASE CHECK OUR WEBSITE.

## Communication

| | |
|---|---|
| LoRaWAN | Class A |
| | EU868, 915US, AU915, AS923 |
| | Private and public Network |
| | OTAA and ABP |
| | Power transmission : 14dBm (EU)  to 20dBm max |
| | Operator compatible : Objenious, Orange ... Network core providers : Actility, Orbiwise, TTN, Loriot ... |
| SigFox (option) | RC1, RC2, RC4 |
| CloverNet | Broadcast, multicast, point-to-point |

## Battery life
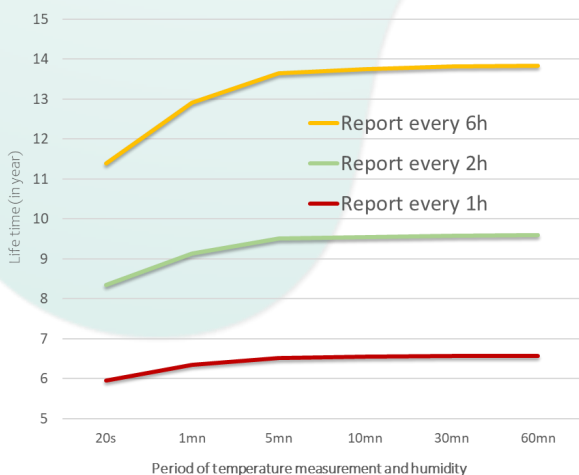


## Use case

| |
|---|
| Communication in SF12 |
| Report with Min/Max/average |
| Recording data in memory for later reading |

## Data transmitted

Value of humidity and temperature

Time-recorded measurements

Alarm in case of high and low threshold overshoot

Alarm in case of snatching

History with time stamp

Activity data (battery, etc.)

Setting up by Downlink

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