

Internet of Things



Flood sensor

# LORAWA

The wireless water leak sensor LORAWA enables detection of water leak soon after its occurrence. For maximum protection against flooding damage, it is recommended that the sensors be installed both in the individual apartments as well as in the common rooms of apartment buildings, such as cellars, as the extra function of the sensor is warning of the frost risk.

All of the LORAWA sensors within the Safe House system are wirelessly connected to the LORA-GATE concentrator, which directly communicates with the Webmon communication node. This is connected to the monitoring centre, but it is also able to send out warning SMS independently.

## Within our services, we offer to our customers:

- remote functional check of the sensors
- remote status check of the battery of the sensors
- alarm tests
- sensor communication check



## Main advantages:

- wireless connection
- reliable reporting on alarms or technical events by calling, SMS
- simple design, no probes or cables, only the sensor itself
- location in apartments or cellar rooms

**BETACONTROL**

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## Sensor operation:

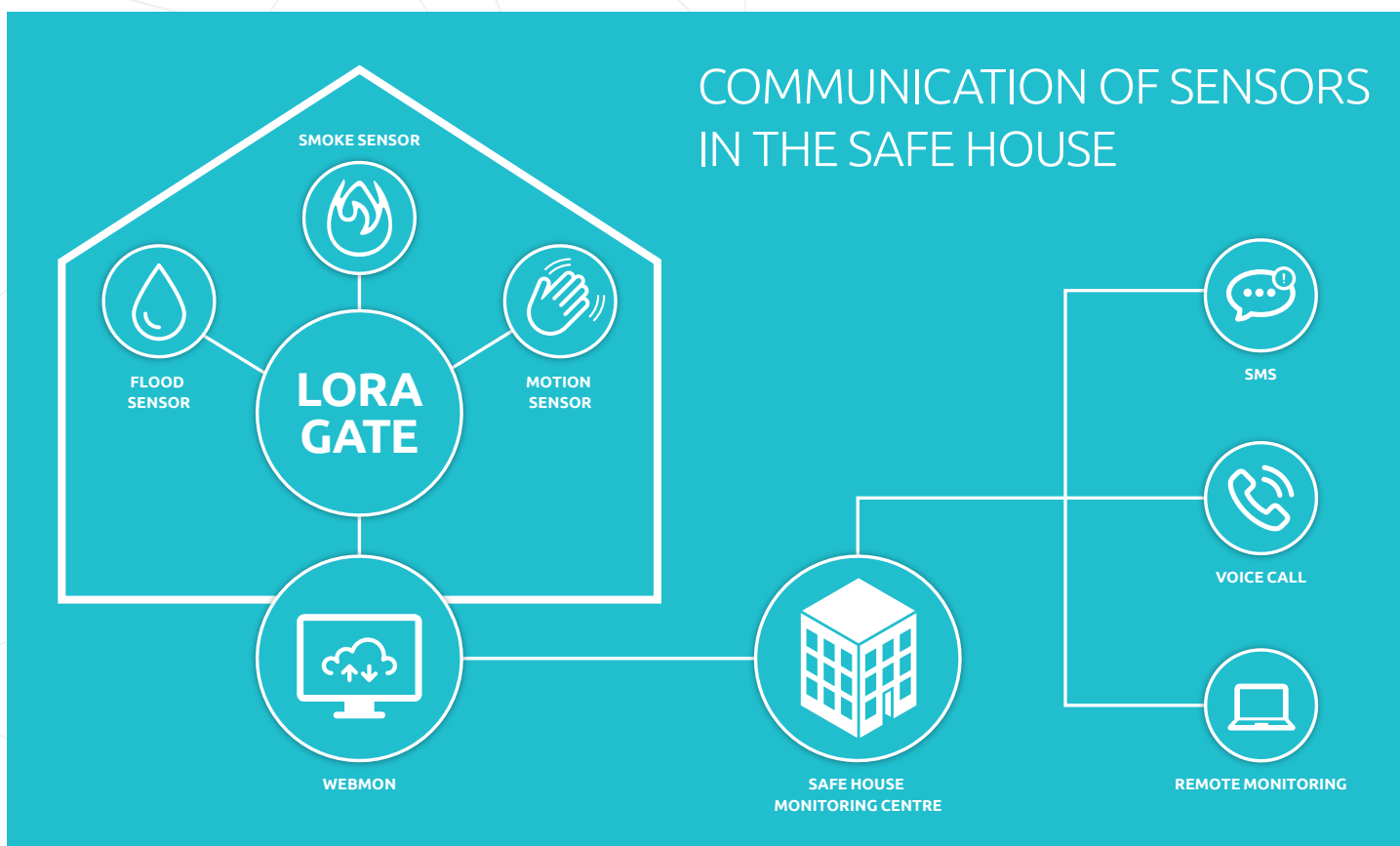
If flooding is detected, the sensor immediately sends an alarm to the monitoring centre as well as an SMS. The sensor warns of the flooding audibly. To ensure the correct position of the sensor and its proper function, it is equipped with a position sensor monitoring its orientation. If the position is incorrect, the sensor first warns the user audibly; then it also sends a message to the centre. Moreover, the sensor monitors decrease of temperature; if the temperature falls below 4 °C, a warning message on the frost risk is sent out. Quitting of all alarms and other warning states is also reported to the centre. The sensor regularly reports to the concentrator so that its function can be checked.

## List of LORAWA events:

- **Alarm states**
  - flooding
  - drying up
  - bad position
  - correct position
  - frost risk
- **Technical warnings**
  - sensor error
  - low battery
  - new connection
  - manual test of the sensor
- **Notification**
  - automatic testing of communication

## Key properties:

- local audible indication in the case of flooding or tilting into a bad position
- detection and sending of alarms and warning events:
  - flooding
  - frost risk
  - low battery voltage
- sending of alarms and warning messages to the Safe House monitoring centre – calling, SMS (can be set for more users)
- battery operation period under normal conditions: 5 years
- range of working temperatures: -10 to +50 °C
- sensor dimensions: 80 × 80 × 40 mm



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