

Internet of Things



Smoke sensor **LORAFI**

The LORAFI fire detection system enables detection of fire shortly after its outbreak. The smoke sensors respond to the presence of smoke in the monitored area. For maximum protection against damage caused by fire, it is recommended that the smoke sensors be installed both in the individual apartments and in the common rooms of apartment buildings, which enables immediate reaction to the outbreak of fire and thus minimization of damage to human health and property. All of the LORAFI smoke sensors are wirelessly connected to the LORA GATE concentrator, which is directly linked to the Webmon communication node. This is connected to the monitoring centre.

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

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Sensor operation:

If fire is detected, audible indication sounds repeatedly and the red LED starts flashing. The sensor indicates alarm until smoke has been exhausted. Message on the fire is immediately sent to the centre. If the limit temperature is exceeded or, on the contrary, the sensor may freeze up, the sensor sends a message on the occurring state. Quitting of all alarms and other warning states is also reported to the centre.

List of the LORAFI sensor events:

- **Alarm states**
 - fire detected by smoke
 - fire detected by temperature
 - frost risk
- **Technical warnings**
 - sensing element error
 - low battery
 - manual test of sensor
- **Notification**
 - automatic testing of communication

Key properties:

- local audible indication of fire outbreak
- detection and sending of alarm and warning events:
 - fire
 - frost risk
 - low battery voltage
 - test button for regular checks
- sending of alarm 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: Ø 95,5 × 41 mm

