

RWM Remote OMS smoke alarm device

KONEXXT REMOTE

Application

The RWM Remote OMS is a device for remote inspection in accordance with construction type C. It ensures early detection of smoke that can be produced by smouldering or open fires. It provides an early warning to people in the event of danger and alerts them visually and acoustically. It is suitable for use in residential buildings, flats and rooms with similar purposes.

Features

The RWM Remote OMS has the following features:

- Smoke detection via 2 measuring sections
- Automatic function test
- Remote inspection according to DIN 14676-1 (construction type C)
- Individual key
- Self-test sound with reduced volume
- Large test/mute button
- Normal operation without status flashing
- Nighttime fault suppression
- Clear signalling via 3 LEDs
- Alternating alarm tone
- Disassembly detection
- Alarm memory
- Typical service life of 10 years without battery replacement
- Contamination compensation
- 3 mounting methods for ceiling and wall
- Compatibility with the Genius base

Description

Smoke detection via 2 measuring sections

The 2 measuring sections, which work according to the scattered light principle, ensure early, reliable smoke detection and high false alarm immunity.



Abb. 1: RWM Remote OMS

Automatic function test

During operation, the device cyclically performs an automatic self-test of the smoke and ultrasound sensors and checks the battery and the acoustic alarm.

Remote inspection according to DIN 14676-1 (construction type C)

In addition to the automatic function test, the environment and the smoke inlets are monitored by means of an ultrasonic sensor during commissioning and cyclically throughout the entire operating period. The area around the smoke alarm device thus always remains in focus. A self-test of the acoustic alarm is performed every 25 days.

The device automatically starts the encrypted radio data transmission according to the OMS standard (individual key according to AES-128) and then sends this data cyclically during normal operation. The data can then be read using a compatible receiver system and individual key.



An up-to-date overview of all compatible receiver systems can be found here: hekatron-brandschutz.de/oms-systeme

Individual key

Decoding encrypted OMS radio protocols requires an individual key for the management platform. You can obtain the corresponding individual key for each smoke alarm device by visiting "Mein HPlus" (www.meinhplus.de) and entering the order number.

Self-test sound with reduced volume

The signal sounds emitted both during commissioning and during later, manually triggered function tests in normal operation are emitted at a reduced volume.

Large test/mute button

The test button can be easily pressed, with a broom handle for instance, as the entire surface of the round cover serves as a test button.

Normal operation without status flashing

No status signalling occurs during normal operation. However, if an event occurs, the device signals an alarm both visually and acoustically.

Nighttime fault suppression

If an event that is not critical to operation occurs at night, the signalling of the device will only be triggered on the following day.

Clear signalling via 3 LEDs

For clear status identification, the different LEDs light up green, yellow or red depending on the status. Detailed descriptions of the device statuses and instructions for action can be found in our operating and mounting instructions.

Alternating alarm tone

The different high and low frequencies of the alarm tone take into account different hearing abilities and thus guarantee audibility at all ages.

Disassembly detection

As soon as the device is unscrewed from its base, it switches off automatically. However, it reports the disassembly beforehand via the OMS protocol.

Alarm memory

A past alarm is signalled for 72 hours by a double flashing of the red LED. This signalling can be stopped by pressing the test button.

Typical service life of 10 years without battery replacement

The device achieves a typical service life of 10 years from initial commissioning thanks to the permanently installed lithium manganese battery.

Contamination compensation

The continuous self-check function automatically detects dirt particles in the measuring chamber and adjusts the basic signal accordingly. The sensitivity thus remains constant, and the service life of the device is increased.

3 mounting methods for ceiling and wall

Devices can be mounted on the ceiling and wall either via screw/dowel mounting (single- or two-hole mounting) or alternatively with the separately available adhesive pad, which is approved by the KRIWAN test centre.

Compatibility with the Genius base

The device is compatible with the base (mounting plate) of the Genius device and can be easily screwed into it. The base is not included in the scope of delivery and must be ordered separately for new installations.

Technical data

General

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|---|--|
| Typical service life | 10 years |
| Sound pressure level at a distance of 3 m | > 85 dB(A) |
| Monitored area per device | max. 60 m ² |
| Voltage supply | 3 V lithium manganese battery |
| Ambient temperature | |
| Operation | 0 °C to +40 °C / (temperature similar to residential conditions) |
| Storage | -10 °C to +50 °C |
| Air humidity (non-condensing) | 15 to 93% rH |
| Degree of protection | IP20 |
| Weight (without base) | 245 g |
| Dimensions (Ø x H) | 139.5 x 78 mm |
| Housing | |
| Colour | white, matte |
| Material | PC-ABS and ABS |

Radio

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|------------------------------|--|
| Transmission mode | EN 13757-4, C1 |
| Transmission protocol | Wireless M-Bus, OMS Generation 4.x |
| Rated frequency | 868.95 MHz |
| Frequency band | 868.7 to 869.2 MHz (SRD) |
| Transmission power | max. 12 dBm |
| Range (radius) in open field | > 200 m |
| Encryption | Security Profile A, AES-128 CBC (ENC mode 5) |

Approvals and conformity

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|----------------------------|--|
| Certification according to | EN 14604:2005/AC:2008 DIN SPEC 91388 Q-label according to TR"Q" No. 018155313:2021-05 OMS standard (4.x) |
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Hekatron Brandschutz
Hekatron Vertriebs GmbH
Brühlmatten 9, 79295 Sulzburg, Germany
Phone: +49 7634 500-8050
hotline@hekatron.de
hekatron-brandschutz.de
A member of the Swiss Securitas Group

Ihr 100Pro Brandschutzpartner.

Order data

| Designation | Part number |
|-----------------------------|--------------------------|
| RWM Remote OMS-N-A VE30 | 31-6400001-02-xx |
| Base RWM VE30 | 31-4100032-01-xx |
| PG.RWM | 31-5600003-01-xx |
| Replacement head Remote OMS | 31-4100045-01-xx |
| Hide ring RWM VE30 | 31-4100026-01-xx |
| Adhesive pad set RWM VE10 | 31-4100001-01- 04 |
| Adhesive pad set RWM VE30 | 31-4100001-02- 04 |
| UTP 5 | 3330253 |
| UTP 6 | 5600072 |
| UTP 7 | 5600073 |

xx – placeholder for the current product version