

Optical Laser Smoke Detector 7251

- **ADM loop technology with System Sensor/200 protocol**
- **Up to 100 times more sensitive than common optical smoke detectors**
- **Sensitivity selectable in 9 steps**
- **Optional pre-alarm function**
- **Automatic drift compensation**
- **Highly insensitive to contamination**
- **Function testable with magnet**



Description

The addressable Optical Laser Smoke Detector 7251 uses the scattered light principle, and was developed for the precise detection of smoke particles in a wide range of applications. The modern design of the sensing chamber allows to reliably evaluate the characteristics of fire.

Due to the high sensitivity of the laser detection chamber, the detector is ideal for applications where an early fire detection is crucial:

- Computer rooms
- Clean room manufacturing
- Hospitals
- Aspiration smoke detection systems

Depending on the application, the high sensitivity of the detector is individually adjustable in 9 steps between 0.03%/m and 3.3%/m and provides a number of special applications, which can not be covered using standard optical smoke detectors.

An optional pre-alarm can be activated two sensitivity levels before reaching the alarm level.

The proven ADM loop technology with System Sensor/200 protocol establishes a permanent communication between the fire detection control panel and the detector. That ensures a periodical function testing of the detector. In the control panel all types of fires are detected by continuously comparing fire patterns.

The influence of contamination on the optical measurement system is reduced with the help of the laser principle and furthermore compensated for by using intelligent evaluation algorithms. With that, the response sensitivity of the detector is kept constant for a long time – a further effective step to avoid false alarms.

The two LEDs with 360° visibility indicate the activated condition of the detector. The detector address is selected with two decadic rotary switches, thus allowing to quickly change the detector without additional tools.

A detector function test can be conveniently conducted using a magnet. The detector can be attached to various bases and it can be protected against theft.



Specifications

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| Operating voltage | Supply through loop voltage |
| Current consumption | max. 330µA (quiescent) |
| Ambient temperature | -10°C to +50°C |
| Relative humidity | 10 – 93% (no condensation) |
| Dimensions ø × H | 103 × 42 (mm) |
| Colour | cream |
| Weight | 159g |
| Approval | VdS G202051 |
| Order number | 241050 |
| Order name | Optical Laser Detector/Anal./200/SS 7251 |

