

# Системы голосового оповещения

## Технические характеристики

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## Voice alarm systems



**Voice alarm systems** are part of the fire alarm system. They alert people affected by the fire and convey the necessary information verbally. This verbal information is perceived more clearly than purely acoustic signals, as it contains, for example, evacuation instructions, employee responsibilities, and instructions for using the building.

A voice alarm system is required in the fire protection concept or the building permit and must be planned by a certified company in accordance with DIN 14675 and constructed, installed and maintained as part of the fire alarm system.

### **Voice alarm systems...**

- ... provide **alarms** and give instructions by voice.
- ... enable an orderly escape of people in the building.
- ... must be **professionally planned** and installed.

### **Overview Products**

- Voice alarm centers
- Speaker
- Energy supply facilities

### **Overview of services**

- Planning and project management
- installation
- Commissioning
- Acceptance test
- maintenance

Voice alarm systems are required according to DIN VDE 0833-4 emergency evacuation systems for use in the event of fire and according to building regulations for sales outlets over 2000 m<sup>2</sup> · assembly halls over 200 people, sports stadiums over 1000 people as well as hospitals and schools.

It may also be required as a compensation measure for special circumstances in the fire protection concept or the building permit.

A voice alarm system can be implemented in two categories: firstly, the full protection variant, in which all areas are alerted, and secondly, the partial protection variant, which only alerts selected areas (places where no people are present are not alerted).

In principle, however, it must consist of components that comply with DIN EN 54, because these components must work together and be compatible without any disadvantages.

### **Energy supply**

When it comes to the power supply, it is important to ensure that the required function is guaranteed even in the event of a power failure, for example through batteries or emergency power systems.

### **Speaker**

Loudspeakers must have a sound level between 65 dB and 120 dB, clearly distinguishing them from ambient noise. They must also be speech intelligible. The STI (Speech Transmission Index) measures the quality of an acoustic signal in the form of speech and should be at least 0.5.

### **Triggering**

On the one hand, the triggering must be able to take place automatically, i.e. by controlling the fire alarm control panel, but on the other hand it must also be possible to trigger it manually using a push-button detector.

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