for a maximum of system security
Digital Microphone Station

ELM-106 manages announcements into one or more selected zones and all-calls. An expansion to handle 12 call zones is possible by the use of an optional six-button module ELE-006.

- On an overall bus length of 100 m on CAT7 cable up to ten pcs. ELM-106 can be connected to a single ESC-012 A. For larger distances please use lower resistance cables.
- With the extension module ELE-004 can be extended to a covered alarm button, three buttons for special functions and 2 fault LED’s.

Digital Microphone Station, Electret microphone with cardioid characteristic ......................................................... ELM-106
Digital Microphone Station, as ELM-106, but without interface RR-120 ................................................................. ELM-106 WO
Button Extension Module, for ELM-106 to handle 12 call zones ................................................................. ELE-006
Function Extension Module, for ELM-106 to expand with further functions .......................................................... ELE-004
Description Control-Center ESC-012 A

VARES ESC-012 A has been developed in full accordance to the latest rules and regulations for security. Targeted towards small and medium-scaled usage scenarios, it handles all the tasks and challenges a voice alarm systems faces in everyday life.

Installation is handled in an easy and straightforward way by using the LCD based user interface. All connected auxiliary components are scanned and registered automatically.

Speaker lines can be configured in 12 single or 6 A/B lines for an increased security. Even a mix of single and redundant line setups for custom scenarios is possible.

A logging function stores all system conditions on non-volatile memory in any case of a technical failure. The generated protocol can be viewed immediately or sent to a printer.

Specifications:
- Graphical user interface with adjustable colour scheme, in any case of an alarm the display flashes in red colour.
- Menu interface with digital rotary encoder.
- Password protected menu interface.
- Fully variable assignment of up to 12 speaker lines to a maximum of 6 power amplifiers, maximum amplifier power is 480 W each.
- A faulty power amplifier is detected and replaced by the backup amplifier automatically.
- Two line level inputs of different priority levels can be used for various tasks, like background music distribution or paging via a telephone system.
- Free assignment of the program to any of the 12 speaker lines.
- The internal digital message memory (based on an SD card) is equipped with an evacuation announcement, a siren according to DIN 33404 and various different chimes (one tone and four tones).
- All 12 speaker lines are monitored for short circuits, line breaks and impedance variation.
- Error messages are provided by clear text display, signalling LED, sounder and dry contact.
- Up to 10 digital call stations ELM-106 can be connected.
- ELM-106 call stations can be expanded to address 12 zones by ELE-006 expansion units.

Model designation
VARES Control-Center, 2 RU .......................... ESC-012A
EXAMPLE OF USE

**VARES 1000**

EN 54-16 CERTIFIED SYSTEM / DIN IEC 50849 / VDE 0828 CERTIFIED / COMPLIANT TO VDE 0833-4

**COMPACT EMERGENCY WARNING SYSTEM**

**Features**
- Amplifier and Microphone Monitoring
- Text Module & Digital Speech Memory
- Line Current and Battery Monitoring
- Fire-Alarm-Transfer Monitoring
- Speaker Line Monitoring
- Automatic Error Log Recording

**Indicated here is the different reaction pattern to siren signals or a spoken message.**
Fire Brigade Call Station

**Description**
The call station is electronically monitored compliant to VDE 0828/IEC 50849. Measured values of the microphone cap, the entire signal path and the press-to-talk bar are detected and analysed.
The direct connection with VARES is made by a 4-pin shielded cable. The stable "slim" desktop housing has a functional design. It is suitably coloured for the specially targeted application.

**VARES Fire Brigade Call Station** ............... **ESM-100 D**

**VARES Software Languages**

**VARES Language Options**
As alternatives to English and German ESC-012A offers a variety of menu languages as options:

1. German (factory setting, at no extra charge)  
2. English  ESL-001/2  
3. Czech  ESL-001/3  
4. Spanish  ESL-001/4  
5. Italian  ESL-001/5  
6. Polish  ESL-001/6

**VARES Software Language** ............... **ESL-001/X**  
(Please replace the „X“ by corresponding last digits, at ordering)

Fire Brigade Handheld Mic

**Description**
The handheld microphone is electronically monitored compliant to VDE 0828/IEC 50849. Measured values of the microphone cap, the entire signal path and the press-to-talk bar are detected and analysed.
The direct connection with VARES is made by a 4-pin shielded cable. The handy, coloured housing with its lateral press-to-talk bar is optimized for its special purposes.

**VARES Fire Brigade Handheld Mic** ............... **ESM-020 H**

**Housing and Mounting Panel for ESM-020 H**

**Description**
The Mounting Panel VMF-020 A for the fire brigade microphone ESM-020 H provides installation in a standard housing according to DIN 14661 and DIN 14662 and can thus be integrated in a fire control panel.

The housing VCF-020 A is optional, if no fire brigade control panel is available. It is designed as a standard housing according to DIN 14661 and DIN 14662, in red (RAL 3000). The housing with transparent door, lockable with on-site fire brigade profile half cylinder according to DIN 18252.

- Protection type: IP40, DIN 40050
- Surface design according to DIN 14663
- The ESM-020 H is part of the certification to EN 54-16

**Mounting Panel** ............... **VMF-020 A**

**Housing** ............... **VCF-020 A**
Dimensions (WxHxD): 250x180x60 mm, 4 kg