Electroacoustic EMERGENCY WARNING SYSTEM

for a maximum of system security
**Technical data VARES ESC-006A**

- **Speaker lines**: 6 lines, max. 480 W each (6 lines with VLM-106)
- **Fire Brigade call stations**: 2x ESM-100D suitable for connection
- **Digital microphone stations**: up to 5 devices VLM-105 (not monitored)
- **Signal outputs**: 7x NF dBr; balanced; 6 x 100V
- **Signal inputs**: 2x NF dBr; unbalanced (music and external)
- **7x 100V; 4x supervised switching inputs for text or alarm activation (Input 4 has a special function to analyse external errors)**
- **Switching outputs**: 2x “Emergency” (break or open contact), 1x “Error” (break or open contact), 1x “Power failure” (break or open contact)
- **PC-interface**: RS-232
- **Voice memory**: EPROM, max. 240 sec.
- **Display**: 2-line Display; LEDs
- **Power supply**: 230V AC, 24V DC
- **Power consumption**: < 25W
- **Dimensions (WxHxD), weight**: 483 x 89 x 340 mm, 2 RU; 6.5 kg

**Digital Microphone Station**

The digital microphone station VLM-106 allows remote control of the Vares Control-Center ESC-006A for background music and voice announcements.

- The RR-10 connection panel (digital interface built-in unit for Vares ESC-006A) and a 3 m data cable with RJ-45 connector (8-pin) is in the scope of supply with each unit.
- The microphone stations control 5 speaker zones and all-call.
- With an overall cable length of up to approx. 100 m, up to 5 VLM-106 stations can be connected in series. With cable lengths of up to 250 m, however, only 3 VLM-106 stations can be connected.
- The desired sound level can be adjusted on the rear of each unit.

**Digital Microphone Station**, Electret microphone with cardioid characteristic.
"VARES" EMERGENCY WARNING SYSTEM

Description Control-Center ESC-006A

The VARES Control-Center ESC-006A is used in public-address systems to prompt persons in emergency situations - inside or outside a building - to leave the danger zone quickly and orderly.

Our new system monitors all necessary components for a safe operation compliant to IEC 60849. The system is particularly suitable for small and middle sized projects. Easy installation as well as easy handling provide for a fast and safe device adjustment locally.

All necessary components for the electroacoustic emergency warning system setup are provided by us. In the following the device with the basic data is described, whereby not all parameters, determined in the standard, are repeated.

General specifications

- Simple installation and compact design with only 2 RU.
- Easy configuration due to an automatic installation routine that recognises all connected devices.
- The speakerlines are monitored for short circuit, interruption, ground fault and impedance.

NEW: optimal application with 6-Channel Power Amplifier BA-6060 P6 or BA-6120 P6 (3 RU each) to build up the 6 lines.

Up to 6 power amplifiers and one backup amplifier can be connected. The VARES Control-Center ESC-006A monitors the amplifiers and switches the speakerlines to the backup amplifier in the case of a failure.

It is possible to connect 2 secured fire brigade microphone stations ESM-100D.

The impedance measurement has a 10% or 20% tolerance.

All devices, which do not require monitoring, can be installed and used as before. These are switched off automatically in the case of emergency and battery operation.

The secured digital voice memory contains a text for evacuation and a siren, compliant to DIN 33404. Additionally two chime types are available (4 tone chime upwards or Westminster). If you wish, special warning text massages can be programmed for you.

Log recording via PC and integrated Watchdog with error counter.

Error messages are prompted by display in clear text with additional signal lights and an acoustic warning signal.

6 speakerlines for backgroundmusic and announcements are directly adjustable and switchable at the VARES Control-Center ESC-006A.

The ESC-006 A acts as a monitoring device compliant to IEC 60849 and as a pre-amplifier. To reach the required power please use the power amplifiers out of our RCS-program.

Up to 5 units digital microphone stations VLM-105 can be connected to the ESC-006A.

Model designation

VARES Control-Center, 2 RU.......................... ESC-006A
In "normal operation", our modified VARIO-LINE can be used with all its functions, without restrictions.

Disconnection of all non safety-relevant components when in battery operation.

Disconnection of all non safety-relevant components when in emergency announcement operation.

2 monitored emergency call stations.

* unsupervised devices
**Model designations**

- **VARES Emergency Power Supply**, 3 RU
  - ESP-700A
- **Lead Acid Battery-Set internal**, for internal use (27 Ah)
  - BA-052
- **Lead Acid Battery-Set external**, for internal use (42 Ah)
  - BA-080

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**Description**

The emergency power supply ESP-700A is developed for emergency warning systems, which must be compliant to standards like e.g. **IEC 60849**. All faults announced through a fault indication contact, a buzzer and an LED indicator.

Please consider the following features:

- **Output protection control with fault announcement** to secure the alarming in the case of emergency power supply.
- **Monitoring of accumulator-connections and announcements** in the case of missing or disconnected accumulators.

**Technical data for ESP-700A**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>ESP-700A</th>
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</thead>
<tbody>
<tr>
<td>End-of-charging voltage</td>
<td>approx. 27.3 V DC</td>
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<tr>
<td>Max. charging current</td>
<td>2.5 A</td>
</tr>
<tr>
<td>Current consumption</td>
<td>105 W</td>
</tr>
<tr>
<td>Power supply</td>
<td>230 V AC</td>
</tr>
<tr>
<td>Accumulator capacity</td>
<td>27 Ah (BA-052); 42 Ah (BA-080)</td>
</tr>
<tr>
<td>Possible power output</td>
<td>7x 120 W</td>
</tr>
<tr>
<td>Dimensions (W x H x D)</td>
<td>483 x 133 x 350 mm, 3 RU</td>
</tr>
<tr>
<td>Weight</td>
<td>12 kg</td>
</tr>
</tbody>
</table>

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**Description**

The call station is electronically monitored compliant to **IEC 60849**. 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-100D

**VARES Fire Brigade Handheld Mic** ESM-010H

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**Fire Brigade Call Station**

**Fire Brigade Handheld Mic**

In addition to the monitored microphone, the station VLM-106 can be used.

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**Description**

The handheld microphone is electronically monitored compliant to **IEC 60849**. 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** EMERGENCY WARNING SYSTEM