VARES 1500

RCS®
AUDIO-SYSTEMS

EN 54-16 / EN 54-4 / VDE 0833-4 / EN 50849 / VDE 0828

EN 54-16 certified

EN 54-4 certified

Compatible with:
VARES 2000
VARES LOOP

VARES 1500
NETWORK VOICE EVACUATION CENTER

R·C·S

VOICE ALARMING SYSTEM
»ONE-BOX-DESIGN«

THE SIMPLE »ALL-IN-ONE« SOLUTION

RCS

VA-SYSTEM ›ALL-IN-ONE‹ VARES 1500

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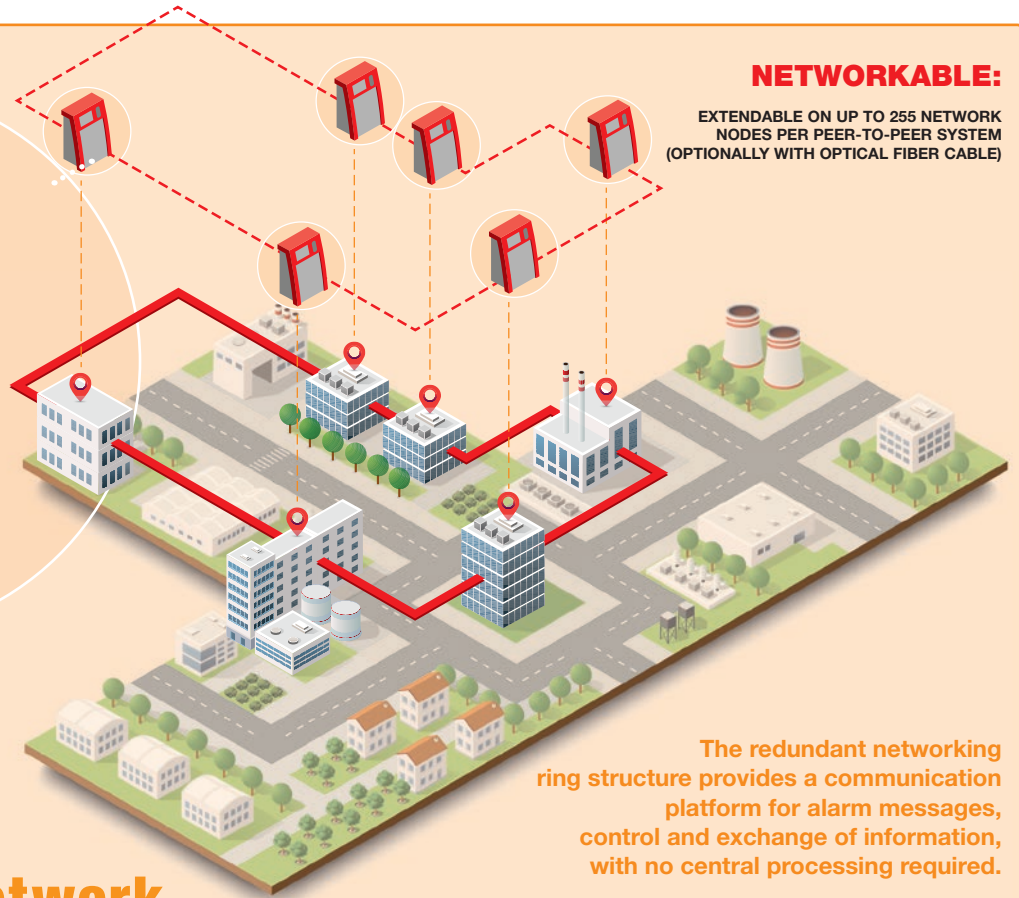

AT DIFFERENT LOCATIONS
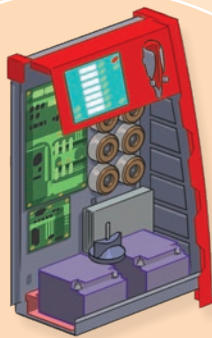
In the device:
- Control unit
- Up to six power amplifier + Backup amplifier
- Emergency power supply
- Fire brigade call station
- Switching module

NETWORKABLE:

EXTENDABLE ON UP TO 255 NETWORK NODES PER PEER-TO-PEER SYSTEM (OPTIONALLY WITH OPTICAL FIBER CABLE)

The redundant networking ring structure provides a communication platform for alarm messages, control and exchange of information, with no central processing required.

SAA network

For planners and engineering companies

COST SAVINGS

Due to the decentralized system version, it is possible to use one device VARES-1500 pro partial area or fire compartment.

The power network within the respective fire section requires no interpretation in function maintenance, as there is no signal distribution across all fire sections.

Advantage 1: Cost savings through the omission of a line network in functional integrity

Advantage 2: Old and listed buildings with an existing line network can be integrated into a modern alerting concept

TIME SAVINGS

For partial renovations, the use of the new VARES-1500 system can modernize only the renovated section.

Non-renovated areas do not need to be fully considered in terms of planning, hardware and installation.

SAFETY

The VARES-1500 system offers complete safety.

Even in the case of disruption within the redundant network, the distributed systems in the building continue to operate independently thanks to the decentralized alarming concept; the area-by-stage alerting remains ensured.

VARES✚1500 ›ALL-IN-ONE‹ VA-SYSTEM

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

R·C·S

EN 54-16 certified

EN 54-4 certified

MADE IN EUROPE

NEW

+ **Compact ›all-in-one‹ solution for small to medium applications**

+ **Up to 36 lines (1-Channel) or 18 lines (2-Channel) expandable per system**

+ **Monitoring all functions to maintain the Voice Alarm System active**

VARES✚1500
NETWORK VOICE EVACUATION CENTER

Description

The voice alarm system VARES-1500 is a comprehensive „all-in-one" concept, that combines the simplicity of a standalone conventional system with the benefits of the global network structure.

Depending on the model (see technical data), the decentralized system contains the necessary routing for up to 6 individual zones or 3 A/B lines. Expandable up to 36 lines (in 1-CH operation) or 18 lines (in 2-CH operation) per system, with 600 W/300 W and an additional active backup amplifier. With up to 255 closed control and display units in a global network.

Please consider the following features:

● Up to 255 network nodes per system with peer-to-peer-system-redundant (ring technology)

● Mains voltage and battery monitoring

● Loop-technique and EOL (end-of-line) support

● Amplifier and microphone monitoring

● Text module & digital announcements memory

● 2 antiparallel 12 kHz live audio streams: Priority channel with second and / or backup channel

● 6 monitored inputs for e.g. manual call points or FACP

● Max. Distance between nodes: 250m (standard Cat5 cable), 2000m optical fiber cable, optional)

● Nearly unlimited network loop length

● Pre- and post-processing software modules (such as volume controls, routing, mixing, switching, and prioritization)

★

Technical data	NVC-200 A	NVC-400 A	NVC-600 A
Amplifier Modules (Class-D)	2x 100W (200W)	4x 100W (400W)	6x 100W (600W)
Loudspeaker circuits	2 (or 1 A/B)	4 (or 2 A/B)	6 (or 3 A/B)
expandable (with NLE-406 A, 1-CH)	12 (or 6 A/B)	24 (or 12 A/B)	36 (or 18 A/B)
expandable (with NLE-406 A, 2-CH)	6 (or 3 A/B)	12 (or 6 A/B)	18 (or 9 A/B)
Inputs (audio)	1x Audio 0dB, 1x fire brigade remote microphone		
Inputs (monitored)	6x alarm, 1x mute and 1x reset contact		
Inputs (unmonitored)	8x unmonitored input contacts		
Output contacts	1x alarm, 1x fault contact (relay), 8x mandatory call output (open collector)		
Outputs 100V (monitored with EOL)	2x 100W (RMS)	4x 100W (RMS)	6x 100W (RMS)
Outputs 100V (optionally bridged)	1x 200W (RMS)	2x 200W (RMS)	3x 200W (RMS)
Power supply	230 V AC		
Emergency power supply	24 V DC		
Dimensions (W x H x D)	520 x 800 x 280 mm		
Weight (without battery)	approx. 25 kg	approx. 27 kg	approx. 29 kg

Model designations

›VARES-1500‹ Network Voice-Evacuation Center, 200 W, (1 power amplifier 2x 100W and Backup amplifier 2x 100W)	**NVC-200 A**
›VARES-1500‹ Network Voice-Evacuation Center, 400 W, (2 power amplifier 2x 100W and Backup amplifier 2x 100W)	**NVC-400 A**
›VARES-1500‹ Network Voice-Evacuation Center, 600 W, (3 power amplifier 2x 100W and Backup amplifier 2x 100W)	**NVC-600 A**

optional Accessories:

›VARES-1500‹ 2-Channel Amplifier module, 2x 100 W, (Retrofit kit for NVC-Series)	**NDA-200 A**
›VARES-1500‹ 2-Channel Backup Amplifier module, 2x 100 W, (Retrofit kit for NVC-Series)	**NDA-200 H**
Lead acid battery set, for internal operation (26 Ah); weight: 18 kg.	**BA-052**
Lead acid battery set, for internal operation (45 Ah); weight: 28,6 kg.	**BA-080**

Input-/Output modules

Fiber optic converter module

- Module for DIN rail mounting
- Connection for multimode fiber optic cable (820 nm / SC plug / double fiber)
- Max. Distance between the modules 2.000 m

FO Converter, for network . . . . **NOM-204 A**
Dimensions (WxHxD): 36 x 90 x 62 mm

Network interface (monitored)

- Module for DIN rail mounting
- 16 monitored inputs (normally open or normally closed)
- 16 outputs (per output individually as normally open or normally closed), switching capacity 40 V / 150 mA per channel
- 1 AUX input
- 1 error contact (NC)
- 1 alarm contact (NO)

Input-/Outputmodule . . . . **NIM-116 A**
for monitored inputs and outputs; Dimensions (WxHxD): 118 x 90 x 65 mm

FACP/VAS Interface

- Module for DIN rail mounting
- FACP (BMZ)/VAS according to VDE 0833-4 Appendix G
- Control voltage of fire alarm system
- Resistor-monitored normally open contact for faults in VAS

FACP/VAS Interface, according to VDE 0833-4 . . . . **PIC-101 A**
Dimensions (WxHxD): 36 x 90 x 62 mm

Line modules

End-of-Line module

- The end-of-line module (EOL) monitors the conduction path for short circuits, disruption and ground faults. The module will be at the end of the line at the last speaker connected.
- Adjustable total power of the monitored loudspeaker line from 10 to 200 W.
- Test noise monitored with 20 KHz.
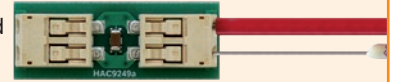
End-of-Line Modul . . . . **NLM-200 A**
Dimensions (WxHxD): 40 x 20 x 5 mm

Modul for Line extension

- Module for DIN rail mounting
- The switching module is connected directly to a single amplifier output (1-Channel) or two outputs (2-Channel) and shares the power for announcements, background music and alerting to three monitored A / B lines
- The total output per module is max. 2x 500 W.

Line Extension, for 6 single or 3 A/B linies . . . . **NLE-406 A**
Dimensions (WxHxD): 118 x 90 x 65 mm

Extension housing for modules

Painted housing with cover made of sheet steel, quick release, incl. sockets. Sheet steel flange plates encircled with foamed-in PU seals.

- With DIN rail

Extension Housing, for DIN rail modules . . . . **NEH-100 A**
Dimensions (WxHxD): 500 x 300 x 120 mm

USB programming adapter

To configure and troubleshoot the VARES-1500 Network Control-Center (NVC-Series) via a PC or laptop.

The PC or laptop for error diagnosis is connected directly to the NVC and can be done on site with the associated software.

›VARES‹ Network Programing Adapter USB, with USB cable and CAT5e crossover patch cable (1m) . . . . **NPA-150 A**

VARES 1500 ›ALL-IN-ONE‹ VA-SYSTEM

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

R·C·S

System intercom station with 6 zone buttons and a PTT talk button. The individual zone keys can be programmed as desired and used for individual, group or all zones calls.

The microphone unit is connected directly to the control unit of NVC-Series. For higher security requirements, it can be redundantly integrated into the network.

The gooseneck microphone with hyper-cardio characteristic ensures the best voice quality.

›VARES‹ Desktop Microphone, with 6+1 Buttons . . . . **NTM-106 A**
Dimensions (DxWxH): 270x220x80 mm; weight: 350 g

Network Desktop Microphone
with 6 line buttons and talk button

This system intercom station has a 7˝ touch screen which allows a clear and uncomplicated programming of all functions.

In addition to the display of different status information, the touch screen offers the possibility of special functions on individual fields, such as playing stored audio files. The display also provides optimum reading and usability conditions by unfavorable lighting.

The hypercardioid microphone, in combination with the obtained compressor, ensures the best voice quality.

›VARES‹ Desktop Microphone, w. Touch-Screen . . . . **NTM-124 A**
Dimensions (DxWxH): 270x220x80 mm; weight: 350 g

Network Desktop Microphone
with Touch-Screen

with Touch-Screen

This desk or wall emergency call station with high priority and fault monitoring can be addressed to all zones or individual zone areas throughout the system, including all address calls, for highest priority voice alert. It is equipped with a hand-held microphone and a monitored PTT or TALK button.

The device is only intended for emergencies and can be used by the fire brigades, rescue teams and authorized security personnel. As an emergency microphone according to EN 54-16, it offers integrated monitoring of the microphone unit, the PTT button and the network connection.

›VARES‹ Fireman Wall Microphone . . . . **NFM-100 A**
for all call, Dimensions (WxHxD): 270x220x80 mm, 250 g

Fireman Wall Microphone
for all call

The fire brigade station according to DIN14664 (only available in Germany) is equipped with a noise-suppressing handheld microphone unit and has 5 buttons and 4 status LEDs. In case of an emergency the microphone allows a live fire announcement. Alternatively, the stored evacuation and warning announcements can also be activated.

The red housing (RAL-3000) corresponds to the specifications of fire alarm systems and has a lockable door in which a profile half cylinder according to DIN 18252 can be installed.

›VARES‹ Fireman Wall Microphone (FES) . . . . **NFM-200 A**
with control panel (compliant to DIN 14664), Dimensions (WxHxD): 253x185x59 mm, 3,2 kg

NEW

Fireman Wall Microphohe
with control panel (**DIN 14664**)

Control panel suitable for FIBS installation

The multi-zone fire brigade wall microphone is equipped with a noise-suppressing handheld microphone unit, zone selection buttons for announcements and triggering of recorded voice messages. The microphone unit within the VARES-2000 architecture is used by the emergency services to assist evacuation of persons from a building during an emergency.

To provide operational security for the user, the network fire brigade wall microphone is equipped with LEDs on the front panel to display the following states: Status, All Call Only,Speak Now and Busy. The microphone unit is fully monitored.

›VARES‹ Fireman Wall Microphone . . . . **NFM-300 A**
with control panel, Dimensions (WxHxD): 440x385x140 mm, 6 kg

Fireman Wall Microphohe
with control panel

further system accessories

Network Patch Cable

The patch cables are designed for use in the VARES-1500 or VARES-2000 network.

Patchcable CAT6a, 0.5 m, yellow, (for VARES-1500/2000) **NPC-005**
Patchcable CAT6a, 1.0 m, yellow, (for VARES-1500/2000) **NPC-010**
Patchcable CAT6a, 3.0 m, yellow, (for VARES-1500/2000) **NPC-030**

Network Crossover Patch Cable

The crossover patch cables are designed for use in the VARES-1500 or VARES-2000 network.

Crossover-Cable CAT6, 0.5 m, gray, (for VARES-1500/2000) **NCC-005**
Crossover-Cable CAT6, 1.0 m, gray, (for VARES-1500/2000) **NCC-010**
Crossover-Cable CAT6, 2.0 m, gray, (for VARES-1500/2000) **NCC-020**
Crossover-Cable CAT6, 3.0 m, gray, (for VARES-1500/2000) **NCC-030**
Crossover-Cable CAT6, 5.0 m, gray, (for VARES-1500/2000) **NCC-050**
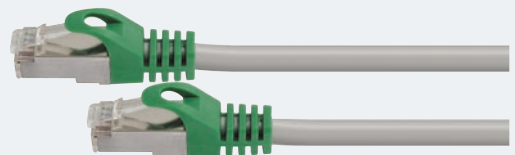
You can find your contact person at:

www.rcs-audio.com

VARES-1500 system is used as

Compact solution in: Kindergartens, office and school containers, supermarkets, parking garages and much more
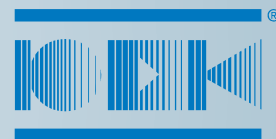
Networked solution in: Hotels, skyscrapers, office and industrial buildings, schools, multi-purpose halls, swimming pools and other leisure facilities and much more

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