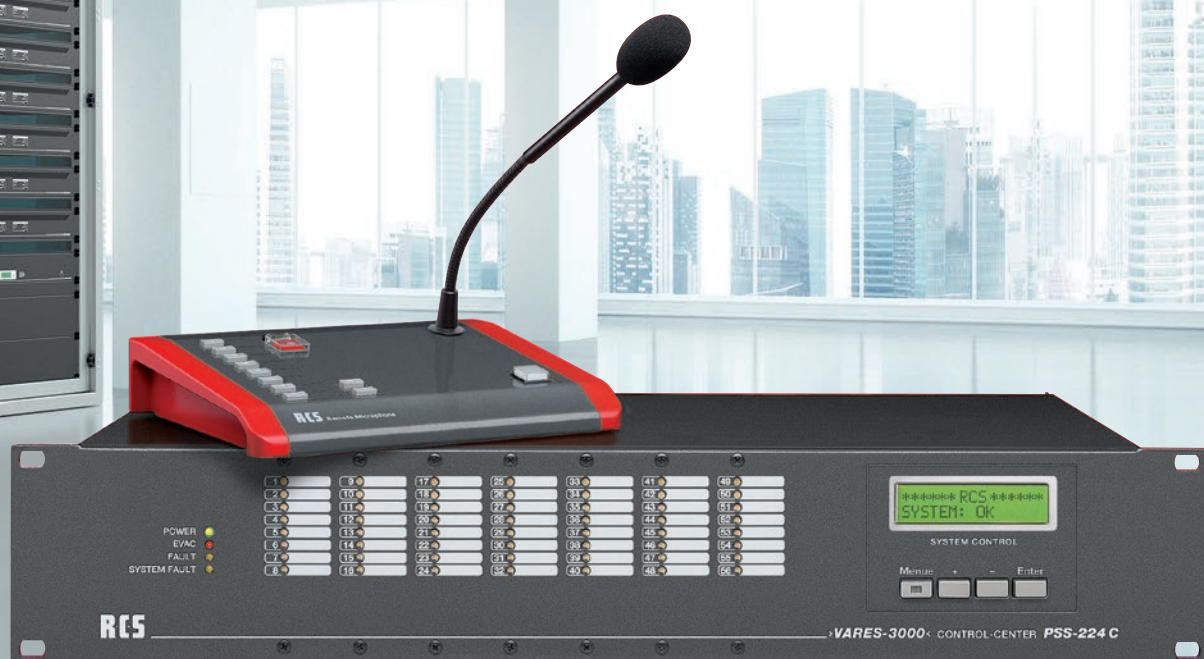


VARES-3000

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

RCS®

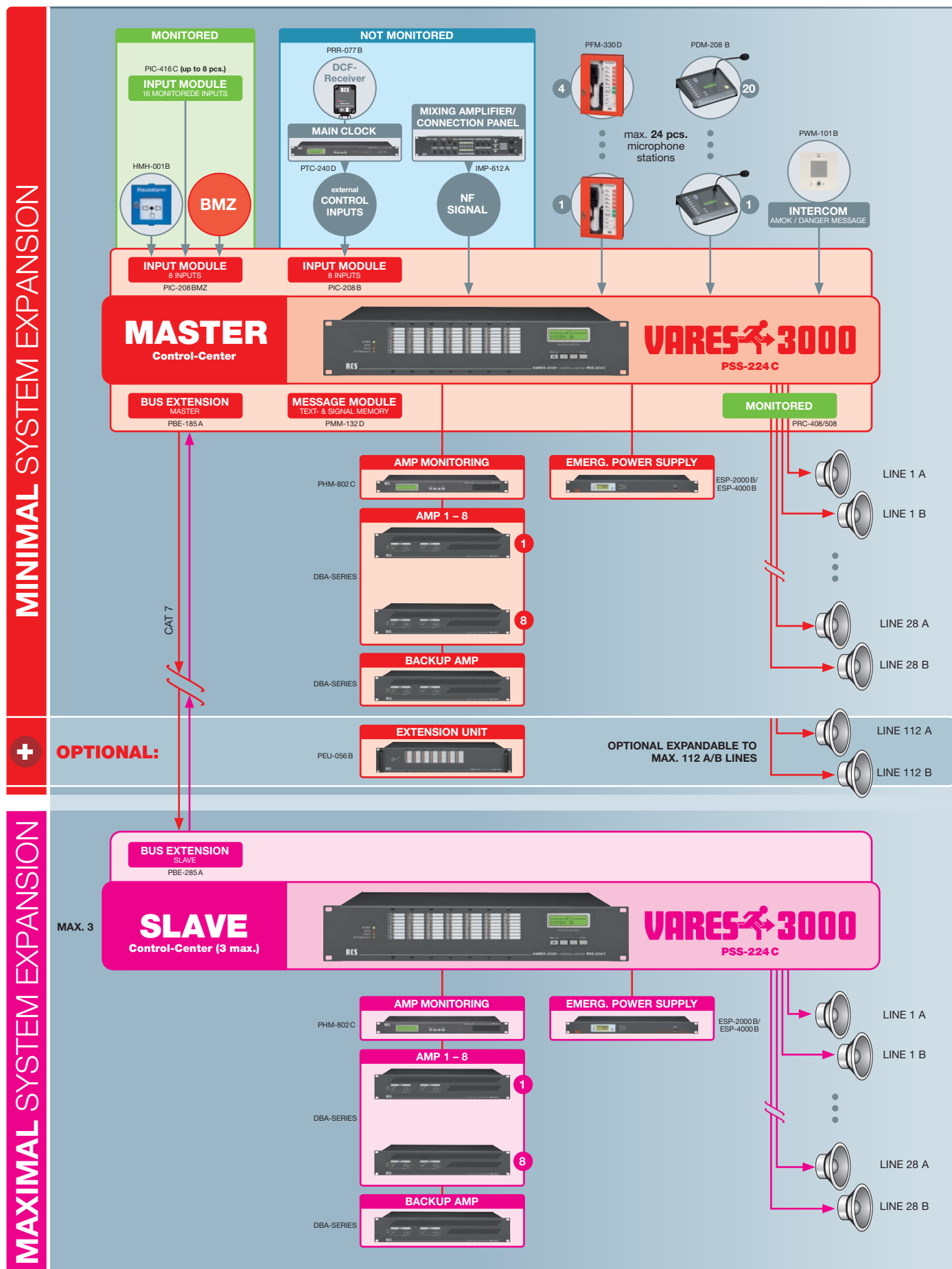
AUDIO-SYSTEMS



FOR UP TO 224 LINES

DIGITAL VOICE ALARMING-SYSTEM

for a maximum of system security



VARES-3000 VOICE ALARM & CALL SYSTEM

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

RCS



Main features of the VARES-3000 system:

- + Directly from the certified manufacturer – Made in Germany
- + VARES BUS SYSTEM for system components
- + Intelligent modular design
- + Energy efficient, fully digital system technology



Description

The digital, easy programmable and flexibly expandable VARES-3000 system takes over the audio- and alarm management for devices with up to 224 speaker lines, or switching contacts per control center..

The system is used in office and industrial buildings, educational institutions such as schools and universities, hotels, shopping centers, multifunctional halls, sports arenas, train stations, hospitals, swimming pools and other large leisure facilities.

FURTHER VARES-3000 SYSTEM FEATURES:

- Control and monitoring of up to 224 loudspeaker lines can be implemented
- Up to 24 call stations can be implemented (per control center)
- Expandable modular design
- Extension of the lines in steps of 8
- BUS system for all system components
- Free programming of the assignment of loudspeaker lines and groups
- Programming and configuration via PC software
- Archiving of the setting data
- Network interface for programming and configuration
- Monitoring of all system components according to EN 50849 / VDE 0828.
- System certified according to EN 54-16
- Latest digital technology
- and much more...

VARES-3000

Advice, planning and offers for a VARES-3000 system that is individually tailored to your project can be obtained by calling:

+49 8061-3501-0



CONTROL-CENTER



The digital, easy programmable and flexibly expandable center PSS-224 C of the VARES-3000 system takes over the audio- and alarm management for devices with up to 224 speaker lines, or switching contacts.

›VARES-3000‹ Control-Center, 2 RU **PSS-224 C**



The digital extension unit PEU-056 B for further 56 speaker lines, is connected through the extension cable PFK-200 to the speaker selector PSS-224 C. A maximum of 3 extension units can be used per PSS-224 C.

›VARES-3000‹ Extension Unit, 2 RU, for PSS-224 C. **PEU-056 B**

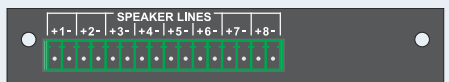
›VARES-3000‹ Extension Cable **PFK-200**
Connecting cable for PEU-056 and Program Selector PPS-024 A

Output- and control modules



Relay Card for 8 speaker lines. The card relays are equipped with power contacts. For switching medium inductive loads up to 600VA.

›VARES-3000‹ Relay Card 8 Lines, digital. **PRC-008 C**



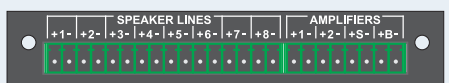
Relay card for earth fault impedance monitoring with 80Hz AC voltage in connection with the measuring module PMO-350 C.

›VARES-3000‹ Relay Card Ground Leakage, digital. **PRC-248 B**



Relay card for special functions. Programmable for alarming, error indication and emergency call Switching option as an emergency power relay during power failure.

›VARES-3000‹ Relay Card Special Functions, 8-fold, digital **PRC-308 C**



Monitored relay card for 2 paging amplifiers, one program amplifier and 8 speaker outputs. Freely programmable using VARES-3000 software.

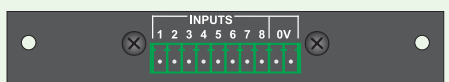
›VARES-3000‹ Matrix-Relay Card 2x8, digital **PRC-408 C**



Monitored relay card for 1-4 power amplifier inputs and 8 loudspeaker outputs. Freely programmable using VARES-3000 software..

VARES-3000‹ Matrix-Relay Card 4x8, digital **PRC-508 A**

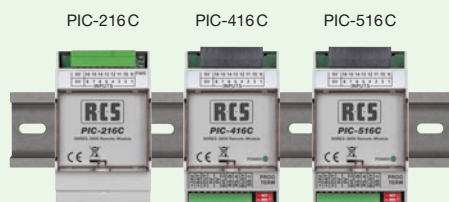
Input modules



8 freely programmable input contacts. Assignment of any line selection or different chime types or text files with an text module installed.

›VARES-3000‹ Input Module, 8 input contacts, digital. **PIC-208 B**

Input modules



Expands the Control Center PSS-224 C by further 16 alarm inputs. Independent bus device can be mounted on a DIN rail. With bus connection.

›VARES-3000‹ **Input Module, Master** 16 monitored inputs, digital **PIC-416C**

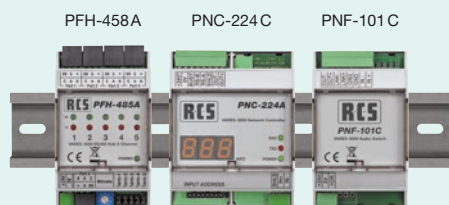
Extension module for 16 monitored alarm inputs. Up to 3 modules can be connected to a PIC-416C (max. 64 inputs). With bus connection.

›VARES-3000‹ **Input Module, Slave** 16 monitored inputs, digital **PIC-216C**

Digital input module for DIN rail mounting. 16 programmable inputs (monitoring can be switched on and off). Independent bus device.

›VARES-3000‹ **Matrix-Relay Card 2x8**, digital **PIC-516C**

Function modules



5-channel, potential free RS485 hub for DIN rail mounting. Star-shaped wiring of RS485 buses possible.

›VARES-3000‹ **RS485-Hub, 5 Channel**, digital **PFH-485A**

Module for networking VARES-3000 systems. Each PNC-224A enables 8 line groups to be controlled in the SLAVE system.

›VARES-3000‹ **Network Control**, zur Vernetzung von VARES-Anlagen, digital . **PNC-224A**

Input for alarm or paging signal. Connection for Priority call-voltage (+ OR connection to PSS-224C). Input for background music

›VARES-3000‹ **NF-Switch, 1-Channel**, digital **PNF-101C**



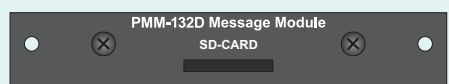
Single or simultaneous switching of 4 inputs to 4 outputs. Balanced audio connections. E.g. to route the signals for a 3 fold sports hall..

›VARES-3000‹ **Audio-Matrix Module, 4x4**, digital **PAX-404A**



Enables the connection of external modules (relay cards, measuring module) to the Control Center. Modules can be installed remotely up to 1.2 km away.

›VARES-3000‹ **Remotemodul**, digital **PBC-610A**



Recording of 32 individual texts in mp3 format on memory card. Alarm text, alarm siren according to DIN 33404 - Part 3, 7 types of chimes prepared.

›VARES-3000‹ **Message-Module**, digital **PMM-132D**



The PBE-185A is an extension module of the PSS-224C for extension and potential separation of the internal I²C-bus to the outside.

›VARES-3000‹ **Bus-Extension – Master**, digital **PBE-185A**



Extension module of the PEU-056B to extend the I²C bus from the Control Center PSS-224C.

›VARES-3000‹ **Bus-Extension – Slave**, digital **PBE-285A**



DIN rail module to extend the I²C bus from the Control Center PSS-224C. With remote modules.

›VARES-3000‹ **Bus-Extension – Slave**, digital **PBE-385A**



Function modules



Display module for displaying current operating conditions, system and error messages. Operation is via 4 buttons on the front of the device.

›VARES-3000‹ Display- and Button Module, digital **PLC-400A**



Display of the status of the line relays on a remote relay card or the relay cards in a remote control center. Two-color status indicator (red / green).

›VARES-3000‹ Display Module, 8-LEDs, digital **PLE-628A**



Module for measuring and monitoring functions. Necessary for line, microphone and amplifier monitoring.

›VARES-3000‹ Monitoring and Measuring Module, digital **PMO-350C**



Monitoring module for installation in the PDM-208 B microphone station. Monitoring of the microphone in accordance with VDE 0828 / EN 50849.

›VARES-3000‹ Microphone Monitoring Module, digital **PMO-400B**



End-of-line module to terminate the loudspeaker lines in order to monitor them in accordance with standards if more than 20 loudspeakers are connected per line.

›VARES-3000‹ End-of-Line Module **PLT-100A**

MAIN CLOCK



This master clock enables the control of up to 130 slave clocks on 2 independent slave clock lines in pulse mode, as well as the time-dependent control of up to 240 switching contacts (in connection with the Control Center PSS-224 C). Two relay cards (PTC-008 B) can be installed. These two provide 16 switching contacts directly.

›VARES-3000‹ Main Clock, incl. slave clock control, digital **PTC-240D**



The DCF bus module is processor-controlled and works independently. It synchronizes all devices on the bus that require an exact system time.

›VARES-3000‹ DCF-Bus Module, Radio receiver, for PTC-240D **PRR-077B**

Relay card with 8 relay switchover contacts extends the functionality of the master clock. Up to two of these 8-fold relay cards can be installed.

›VARES-3000‹ Relay Card, 8-fold, for PTC-240D, digital **PTC-008B**

Relay module for use in the slave clock line. To increase the number of slave clocks or as a booster for long supply lines to the slave clock.

›VARES-3000‹ Relay-Module, Booster, for PTC-240D slave clocks **PTC-102A**

Programming adapter to configuring VARES-3000 Main Clock PTC-240D (if Main Clock PTC-240D is in use without the PSS-224 C).

›VARES-3000‹ Programming Adapter, for PTC-240D **PCA-300**

›VARES-3000‹ Power Supply, 24V, 2A, for PTC-240D **PSU-048/24**

AMPLIFIER MONITORING



The digital emergency management enables the permanent monitoring of up to 10 amplifiers, of which a maximum of 8 can be configured as call amplifiers and 2 as backup amplifiers. The connected amplifiers are checked sequentially using the pilot tone.

›VARES-3000‹ Amplifier Monitoring, 1 RU, digital **PHM-802 C**

The amplifier monitoring is integrated into the VARES-3000 system through this interface and monitoring is ensured via the bus cable.

›VARES-3000‹ Bus option RS-485, digital **PHM-485 B**

After installing the monitor module, all 10 amplifier outputs (8 + 2) can be monitored. Monitoring speaker: broadband, 4W 8 ohms.

›VARES-3000‹ Monitor Module, for 10 amplifiers (installation in PHM-802 C) . **PMU-802 A**

PROGRAM SELECTOR



With the Program Selector 24 differently programmed background music zones can be switched on and off manually. Thus each individual button of the PPS-024A may be assigned to one relay of the control center. Groups of speaker lines can be programmed for each individual button.

›VARES-3000‹ Program Selector, 1 RU, 24 buttons **PPS-024 A**

›VARES-3000‹ Extension Cable **PFK-200**

Connection cable for PEU-056B and PPS-024 A, for SLAVE connection of the PSS-224 C.

The bus module is required to locally separate the PPS-024A Program Selector from the VARES-3000 Control Center (PSS-224 C).

›VARES-3000‹ Bus module, (für PPS-024A), digital. **PBC-400 B**



Keypad for switching programmed background zones. It can also be used as a display panel for alarm inputs of the VARES-3000 system.

›VARES-3000‹ Keypad Field, 24 buttons **PKF-024 A**

Flush housing, for flush mounting of the PKF-024A **UPG-400**

AMOK- / CONVERSATION UNIT



The processor-controlled talk-back unit not only offers the classic intercom function, but also serves as an indispensable tool for quick and precise alarming in an emergency (amok situation).

›VARES-3000‹ Conversation-Unit **PWM-101 B**

Flush housing, for flush mounting of the PWM-101 B **UPG-400**

Surface housing, for surface mounting the PWM-101 B **APG-400**



DESKTOP MICROPHONES



This addressable all call remote microphone is suited for building the inter-communication system with up to 200 participants.

›VARES-3000‹ All Call Desktop Microphone, digital **PTM-101 B**



The digital microphone station can control 8 loudspeaker groups or individual lines. Expandable with various Microphone extension units.

›VARES-3000‹ Microphone Station, with LCD-Display, 8 switches, digital . . **PDM-208 B**

›VARES-3000‹ Connecting Cable, for Microphone Extension Units **PFK-101**



The freely programmable buttons can be programmed for individual zones or for groups of several loudspeaker lines.

›VARES-3000‹ Microphone Extension Unit, 8 buttons, digital **PEM-008 B**



The programmable expansion module has four covered alarm buttons for the direct transmission of four different alarm signals.

›VARES-3000‹ Microphone Extension Unit, 4 alarm buttons, digital . . **PEM-104 B**



This microphone fault indicator modul displays selectively numerous appearing errors according to EN 50849 directly on one selected microphone..

›VARES-3000‹ Microphone Fault Indicator Module, digital **PSM-108 B**



The module shows the internal address (e.g. room number), which is sent by the caller of another microphone station (PTM- or PWM-101 B).

›VARES-3000‹ LED-Address Module, digital **PAM-130 A**



Numeric keypad as an extension unit for the PDM-208 B microphone station, for selecting individual or rarely used zones.

›VARES-3000‹ Ten-Keys Pad, digital **PZM-310 B**



Up to 8 loudspeaker groups can be switched on or prepared texts (from the PMM-132 D) can be called up using the memory buttons..

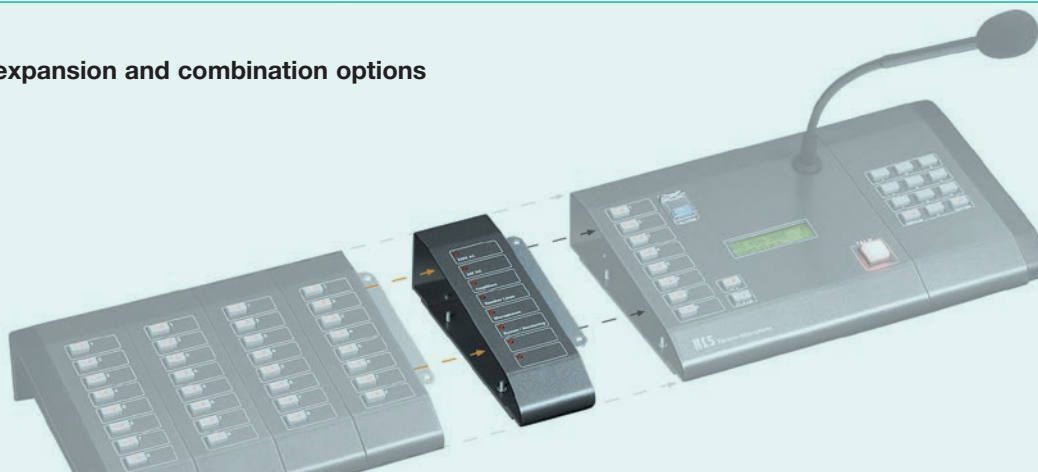
›VARES-3000‹ Fire Brigade Microphone Station, digital **PFM-308 C**



The illuminated buttons can be used to call up 5 alarm announcements from the PMM-132D text module of the PSS-224C in five freely configurable zones, which can be used to initiate the targeted evacuation of a building in the event of an alarm.

›VARES-3000‹ Fire Brigade Wall Microphone Station, digital . . **PFM-330 D**
compliant to VDE 0828/EN 50849,

Flexible expansion and combination options



SYSTEM ACCESSORIES



Power supply units for the voltage supply of the corresponding VARES-3000 system component.

›VARES-3000‹ Power Supply, 24 VA, 24 V, 1A..... **PSU-024/24**

›VARES-3000‹ Power Supply, 48 VA, 24 V, 2A..... **PSU-048/24**

›VARES-3000‹ Power Supply, 120 VA, 24 V, 5A..... **PSU-120/24**

›VARES-3000‹ Power Supply, 240 VA, 24 V, 10A..... **PSU-240/24**

›VARES-3000‹ Connecting Cable, 3 m, for Microphone Stations..... **PMC-003**



Installation-friendly Sub-D 9 connection socket to connect the microphone units to the bus..

›VARES-3000‹ Bus Connection Socket, 25-pin **PBA-300 B**



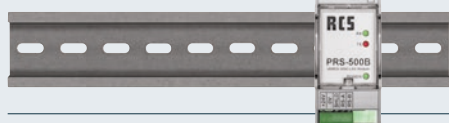
Installation-friendly Sub-D 9 connection (surface mounting) to connect the microphone units to the bus.

›VARES-3000‹ Bus Socket, 25-pin for surface mounting..... **PAS-300 B**



Installation-friendly Sub-D 9 connection (flush mounting) to connect the microphone units to the bus.

›VARES-3000‹ Bus Socket, 25-pin for flush mounting..... **PWS-300 B**



For configuration and fault diagnosis of the VARES-3000 Control Center via a PC or laptop.

›VARES-3000‹ UDP-Telecommunication Module..... **PRS-500 B**

The NTP software option enables synchronization with the local computer network through the PRS-500B module. For the PSS-224C and PTC-240D devices, summer/winter time changeover is possible without an additional radio receiver.

›VARES-3000‹ NTP-Software option for LAN-Adapter, (NTP time synchronization via network)..... **PRS-500 NTP**



›VARES-3000‹ Hard- and Software-Configuration

If you like to configure your VARES 3000 System by us, please feel free to contact us. We like to submit you an offer. Please contact us.

Hard- and Software-Configuration..... **PHS-1000**





VOICE ALARM & CALL SYSTEM VARES-3000

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

You can find your contact person at:
www.rcs-audio.com

VARES-3000 system is used as

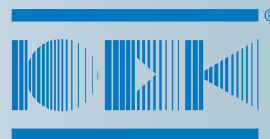
Flexible solution in: office and industrial buildings, educational institutions such as schools and universities, hotels, shopping centers, multifunctional halls, sports arenas, train stations, hospitals, swimming pools and other large leisure facilities and much more

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Leistungsgemeinschaft
Beschallungstechnik
im ZVEI-Fachverband
Sicherheitssysteme

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