



5 power classes
120-240-360-480-600 W



VLM -206

Supplied with
19" mounting brackets

- + 6 SPEAKER LINES
- + MONITORING OF THE BASIC FUNCTIONS
- + UP TO 600W (RMS) POWER

Description

The "VARIO-LINE" amplifier and microphone system permits the switching of up to **6 speaker zones** and of the all-call function as well as the setting of the desired volume for each zone from the central unit. The amplifier can be used with any microphone, but has been optimized for the use with the "VARIO-LINE" microphone stations VLM-100, VLM-106 (digital remote control of the speaker zones) and VLM-206 (digital remote control of the speaker zones and the DM-10 digital announcement module).

Please consider the following features:

- Inputs 1 - 3 can be switched to MIC or LINE. The respective volume as well as treble and bass are controlled separately and have always priority over LINE-IN.
- All MIC inputs have gain control and switchable phantom power. The priority switches define the priority of the inputs.
- The MIC inputs are balanced combo sockets. MIC-1 is additional on 7-pin DIN socket for VLM-100. The LINE inputs are RCA sockets.
- Optionally available are the Module FD-21 monitor the amplifier. Further available the Module FM-30 with fan/fuse fault relay contacts and the FS-40 Frequency-Shift-Module.
- The AMP-IN and PRE-OUT sockets allow cascading of further amplifiers. The 5 output circuits may also be used for this purpose after they have been modified (VLZ-SERVICE 01).
- The amplifier operates on mains power (230 V) or 24 V DC (emergency power supply).
- The unit is also equipped with an electronic 2- or 4-tone chime (switchable), an electronic siren (high-low, switchable to alarm sound) and a telephone paging input (Line-in with priority); all these signals can be controlled separately on the front panel.

- A special feature of all models is the option for integrating a sound source module. An empty compartment is provided for the installation of an additional module. The following modules are available:

FM/AM tuner module

12 x FM + 6 x AM memory stations

TP-10



Cassette player module

Autoreverse and pause function

CP-10



Cassette/tuner module

Functions of TP-10 and CP-10

CR-10



CD/MP3- player module

Repeat, Random, etc.

GDP-10 M



MP3

CD/MP3- tuner module

RDS-Tuner and MP3-/CD-Player

CDR-10 RDS



MP3

RDS

Digital text module

6 texts up to 4 min. 28 sec.

DM-10



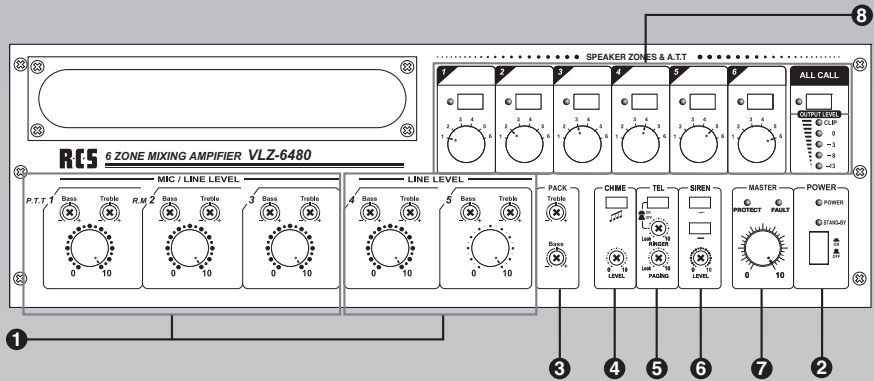
For a detailed description of the modules see pages 20 and 21.

Model designations

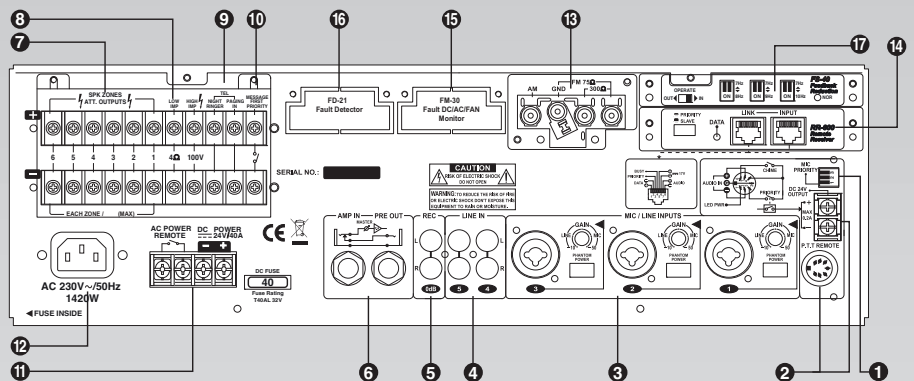
- 6-ZONES „VARIO-LINE“, 120 W (3 RU)..... VLZ-6120 A**
- 6-ZONES „VARIO-LINE“, 240 W (3 RU)..... VLZ-6240 A**
- 6-ZONES „VARIO-LINE“, 360 W (3 RU)..... VLZ-6360 A**
- 6-ZONES „VARIO-LINE“, 480 W (3 RU)..... VLZ-6480 A**
- 6-ZONES „VARIO-LINE“, 600 W (3 RU)..... VLZ-6600 A**

FRONT VIEW

- 1 Inputs for MIC / LINE control
- 2 Power switch
- 3 Bass/Treble control for embedded moduls
- 4 Chime switch and volume control
- 5 NIGHT-RINGER switch, volume control for RINGER and Paging-input
- 6 Siren switch, up-down tone / constant tone and volume control for siren
- 7 Master volume control
- 8 6 zones, all-call switch and control unit



- 1 MIC priority switch
- 2 MIC-1 with chime release for VLM-100 (7-pin)
- 3 MIC / LINE Inputs 1 – 3
- 4 LINE Inputs 4 + 5
- 5 REC output, unbalanced 0dB
- 6 AMP-IN and PRE-OUT, Jack 6,3 mm, unbalanced
- 7 100 V and 70 V speaker outputs, 6 separately controlled circuits
- 8 Low impedance outputs, 4 ohms
- 9 NIGHT-RINGER and PAGING-IN
- 10 Terminal for priority switch of the Digital text module DM-10
- 11 Terminal for 24V DC power supply and Power Remote
- 12 IEC power inlet (cold condition)
- 13 Antenna terminal (only with installed tuner module)
- 14 Terminal for remote microphone desks VLM-106/206
- 15 Shaft for optional Error Monitoring Module FM-30
- 16 Shaft for optional pilot tone Module FD-21
- 17 Shaft for optional Frequency Shift-Module FS-40



REAR VIEW

Technical Data	VLZ-6120 A	VLZ-6240 A	VLZ-6360 A	VLZ-6480 A	VLZ-6600 A
Output power	120 W RMS	240 W RMS	360 W RMS	480 W RMS	600 W RMS
Frequency resp., noise level	55 Hz – 16.000 Hz (better than -3 dB), MIC better than 70 dB, LINE better than 80 dB				
THD at 1 kHz	better than 1 % at 1kHz				
Inputs MIC – AUX/LINE	All Mic/Line-Inputs are electronically balanced. Input 1+2 with priority. All Inputs feature combo-females (Jack 6,3 mm, XLR) Mic: -50dB (2,45 mV), Line: -10dB (245 mV)				
Outputs, speakers	100 V, 70 V, low impedance 4 ohms,				
Additional input or output	AMP-IN: +4dB (1,23 V), PRE-OUT: 0dBu (775 mV)				
Chime and Siren	2- or 4-tone chime (switchable); siren with up-down or continuous tone (adjustable on the frontside)				
Power Supply AC/DC	AC 230 V (50/60 Hz), 24V DC				
Dimensions (WxHxD)/weight	483x133x350 mm; 13 kg	483x133x350 mm; 14 kg	483x133x350 mm; 19 kg	483x133x350 mm; 20 kg	483x133x350 mm; 22 kg

VLM-100 | for all-call

Microphone desk (condenser) with pre-announcement chime, priority switching via 7-pin DIN connection.



Microphone desk **VLM-100**

VLM-106 | for 6 zones

Digital microphone desk to select and control 6 speaker zones. Pre-announcement chime and all-call.



Microphone desk **VLM-106**

For remote control of 6 Speaker zones and „all-call“

Microphone desk **VLM-106 WO**

as VLM-106 but without interface RR-60

VLM-206 | for 6 zones & text module

Digital microphone desk to select and control 6 separately speaker zones, further for remote control of the digital text module DM-10.



Microphone desk **VLM-206**

For remote control of 6 Speaker zones, „all-call“ and DM-10

Microphone desk **VLM-206 WO**

as VLM-206 but without interface RR-60

OPTIONAL | Pilotone-Module

FD-21

Description

This pilot tone module serves to monitor the performance of amplifiers.

The generator produces a 20 kHz test signal. Apart from the test of the power amplifier functioning, the speaker line is checked for short circuit faults.



Pilotone-Module **FD-21**

Extension-Module for the VLZ-Series

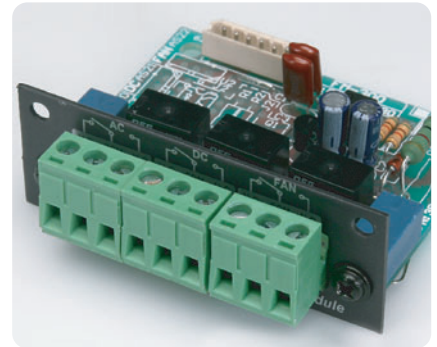
OPTIONAL | Error Monitoring-Module

FM-30

Description

The Error Monitoring-Module has three potential-free relay contacts (NO/NC).

Fault monitoring is operating if AC- or DC-fuse is blown and if AC- or DC-power is off or disconnected. Also the module reacts when fan fault or fan is disconnected.



Error Monitoring-Module **FM-30**

Extension-Module for the VLZ-Series

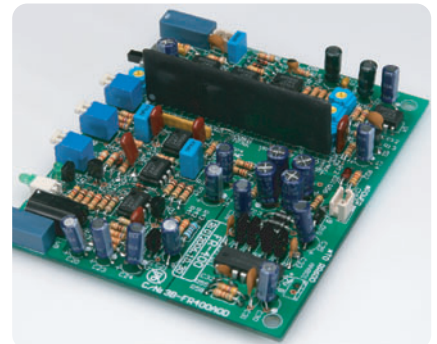
OPTIONAL | Frequency Shift-Module

FS-40

Description

Module for the reduction of feedback noise (takes only effect at Input 1 of VLZ).

The possible frequency shifts of 7 - 10 Hz make sense, even if background music in addition to microphone announcements take place.



Frequency Shift-Module **FS-40**

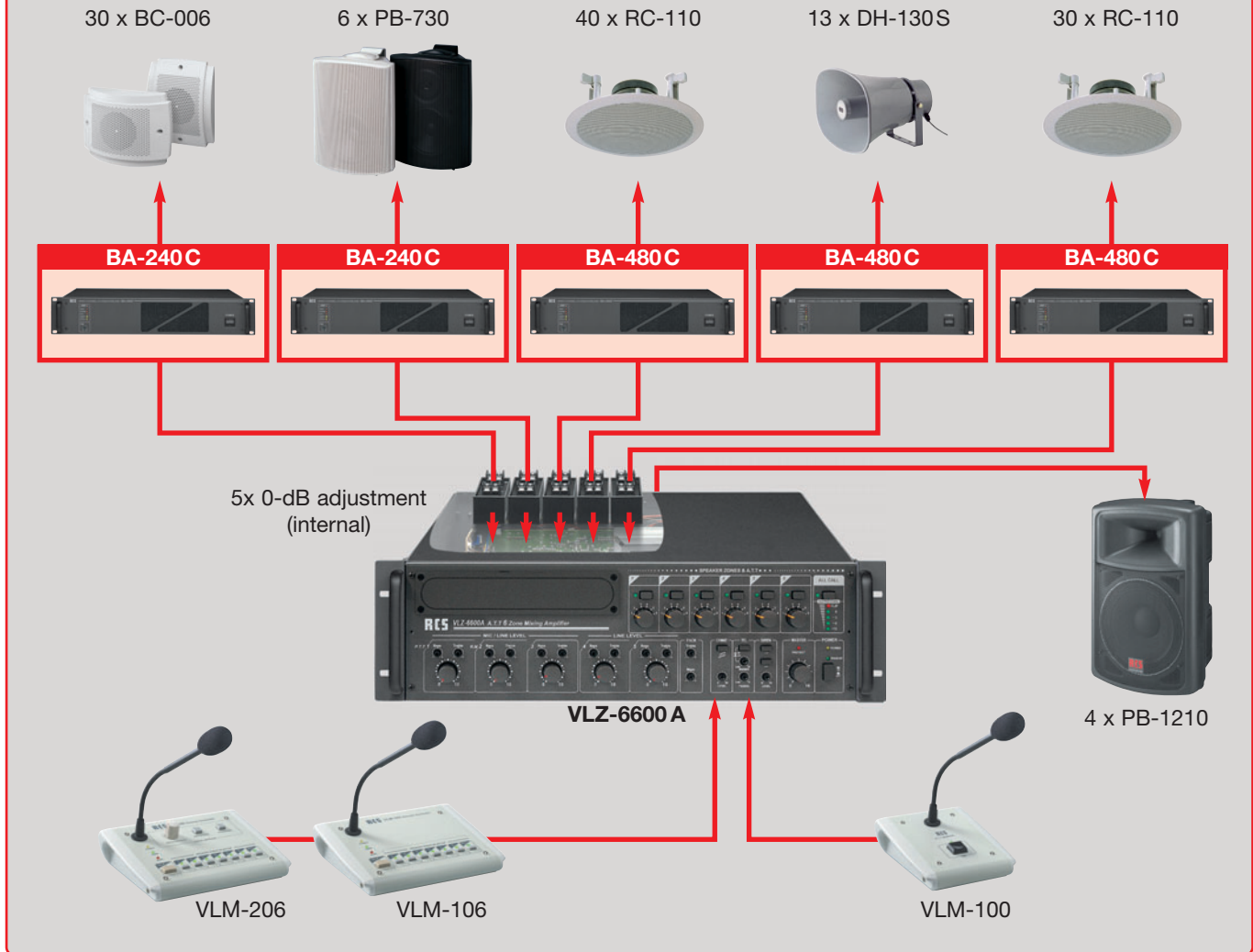
Extension-Module for the VLZ-Series

SPECIAL FUNCTIONS 6-ZONES „VARIO-LINE“



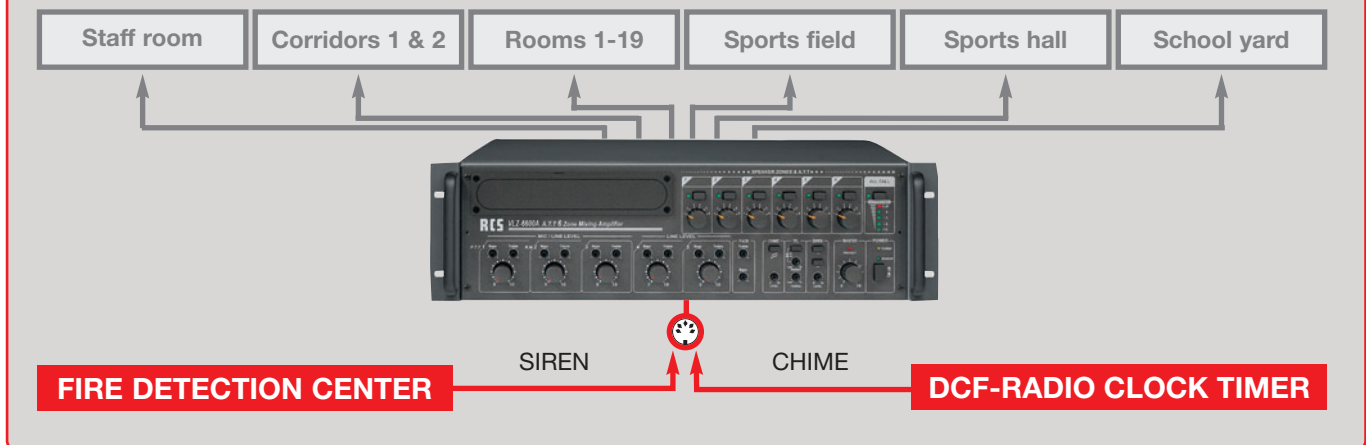
Example 1: 6 speaker lines, total power 2520 W VL-SERVICE 01

Up to 5 speaker zones are adapted to LINE level for cascading with further amplifiers:



EXAMPLE 2: School with recess chime and alarm siren VL-SERVICE 03

Additional input for the external control of chime, siren and All-Call:



VL-SERVICE 01

0-dB adjustment for power extension

The desired numbers of speaker zones are adapted to LINE level for cascading with further amplifiers.

1. Power extension up to 3000 W
2. Separate control- and switchable lines remain
3. 0-dB adjustment internal (please indicate desired number with the order)

0-dB adjustment, for power extension... **VL-SERVICE 01**

VL-SERVICE 02

Installation PCM-100

Installation PCM-100 special (7 chime types & DIN-siren)

1. Option from 7 different chime types (1-tone, 2-tone, 3-tone, 4-tone, from 2-tone up or down)
2. To be controlled separately via potential-free contacts
3. Siren compliant to DIN 33404

Installation PCM-100..... **VL-SERVICE 02**

VL-SERVICE 03

Input for the external control of 4-tone chime, siren and All-Call

Input for the external control of 4-tone chime, siren and All-Call:

1. For release of chime and siren via potential free contacts, e.g. by BMZ, clock timer, remote microphone etc.
2. Simultaneous release of All-Call
3. 2-tone chime as pre-chime of remote mic.

Input for the external control **VL-SERVICE 03**

VL-SERVICE 04

2 chime types

Input for the external control of 4-tone chime and 2-tone chime as pre-chime of remote microphone:

1. For release of 4-tone chime via potential free contacts, e.g. by clock timer (recess chime)
2. Simultaneous release of All-Call
3. 2-tone chime as pre-chime of remote mic.

2 chime types..... **VL-SERVICE 04**

VL-SERVICE 05

Potential free contacts

Input for potential free contacts for external control of the 5 or 6 speaker lines:

1. Easy activation of desired speaker lines, e.g. via substation, key pad or clock timer
2. 7-pin DIN-socket as interface

Potential free contacts..... **VL-SERVICE 05**

VL-SERVICE 06

Ground leak monitoring

Module installation for ground leak monitoring:

1. Monitoring of the 100V-outputs for ground leak
2. Alarm tone at fault

Ground leak monitoring..... **VL-SERVICE 06**