

VLM-100 A | for all-call

Microphone desk (condenser) with pre-announcement chime, priority switching via RJ-45 connection.



Microphone desk **VLM-100A**

VLM-106 | for 5 zones

Digital microphone desk to select and control 5 speaker zones. Pre-announcement chime and all-call.



Microphone desk **VLM-105**

Microphone desk **VLM-105WO**
as VLM-105 but without interface RR-10

Function extension module **VLE-004**
to remote special functions (via separate line)

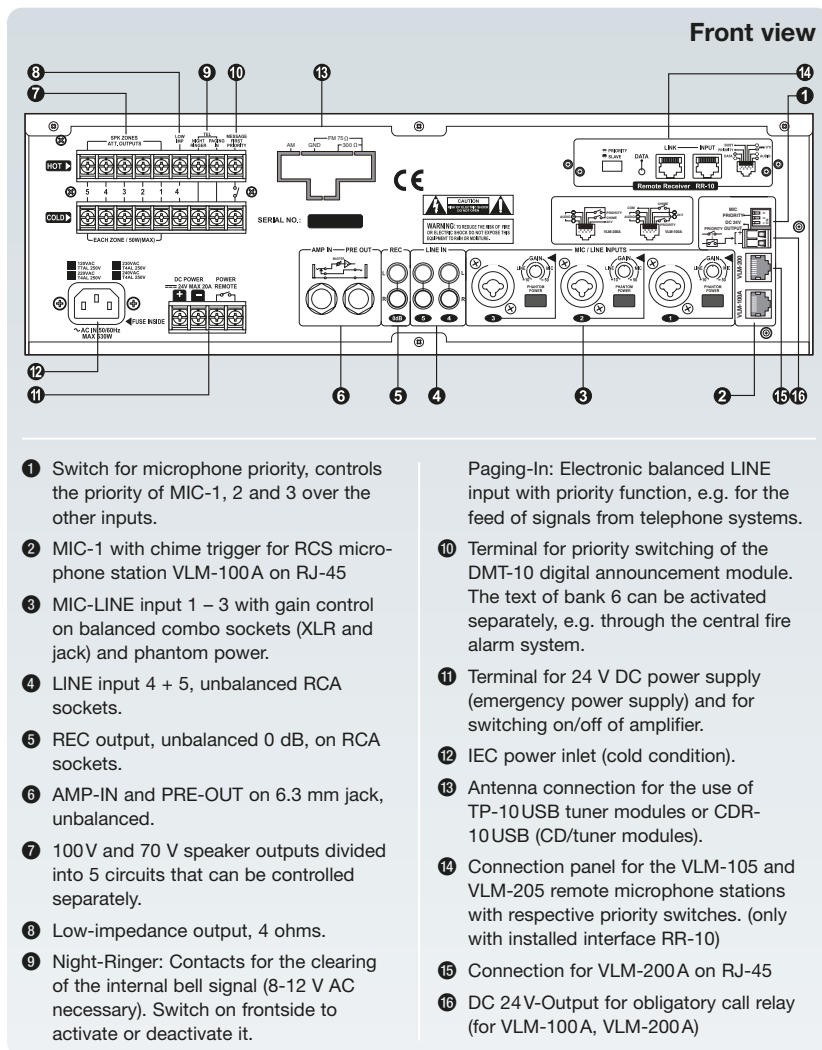
VLM-205 | for 5 zones & text module

Digital microphone desk to select and control 5 separately speaker zones, further for remote control of the digital text module DMT-10.



Microphone desk **VLM-205**

Microphone desk **VLM-205WO**
as VLM-205 but without interface RR-10



Technical data	VLA-120 C – VLA-240 C
Output power	VLA-120: 120 W RMS (max. 180 W) – VLA-240 C: 240 W RMS (max. 360 W)
Frequency resp., noise level	50 Hz – 18.000 Hz (better than -3 dB), MIC better than 70 dB, LINE better than 80 dB
THD	better than 1% at 1 kHz
Inputs	MIC/LINE 1–3: -50 dBu (2.45 mV), 5 kohms, balanced MIC/LINE 1–3: -10 dBu (245 mV), 5 kohms, balanced LINE 4–5: -10 dBu (245 mV), 15 kohms, unbalanced TEL-PAGING: -10 dBu (245 mV), 10 kohms, electr. balanced REMOTE-MIC: -50 dBu (2.45 mV), 5 kohms, unbalanced AMP-IN: 0 dBu (775 mV), 10 kohms, unbalanced
Outputs	REC-OUT: 0 dBu (775 mV), 3 kohms, unbalanced PRE-OUT: 0 dBu (775 mV), 100 ohms, unbalanced
Outputs, speakers	100V or 70 V and 4 ohms low-impedance Controller steps: 100 V – 70 V – 50 V – 25 V – 12.5 V – 8.9 V on 5 zones and all-call
Two- or Fourtone chime	volume can be set on the front panel, chime type switchable by jumper
Siren	continuous tone or high-low, can be set on front panel
Telephone paging	can be set on the front panel (night ringer also adjustable)
Phantom power	on all MIC inputs (combo socket for XLR and 6.3 mm jack)
Treble and bass controls	on the front panel, separately for inputs 1 – 5 and audio source module
Gain	on the front panel for inputs 1 – 3
Priority	can be set separately for MIC 1 – 3 on the rear
Power supply	230 V mains (50/60 Hz) and 24 V DC (emergency power supply)
Power consumption	VLA-120 C: 350 W – VLA-240 C: 630 W VLA-120 C: 1/8-0,8 A – rated-1.8 A – VLA-240 C: 1/8-1.6 A – rated-3,2 A
Dimensions W x H x D / Weight	483 x 133 x 352 mm; VLA-120 C: approx. 13,0 kg, VLA-240 C: approx. 14,5 kg



Ball-bearing fan ensures long life and quiet running

Description

The „VARIO-LINE“ amplifier and microphone system permits the switching of up to 5 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-100A, VLM-105 (digital remote control of the speaker zones) and VLM-205 (digital remote control of the speaker zones and the DMT-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 always have 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 on combo sockets. MIC-1 is additional on RJ-45 socket. The LINE inputs are via RCA sockets.
- The amplifier is equipped with an automatic DC fan as well as with all required protective devices such as overload and overheating protection as well as soft start.
- 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 (0 dB control).
- The amplifier operates on mains power (230 V) or 24 V DC (emergency power supply).
- The unit is also equipped with an electronic 2-tone chime (4-tone chime optional), an electronic siren (high-low, switchable to alarm sound) and a telephone paging system (Line-in with priority); all these signals can be controlled separately on the front panel of the unit.

Special functions

Special functions such as ground fault detection, remote of chime, siren, deactivation of priority, all-call paging and 0-dB setting element for the power extension can be integrated in the unit. Please consider the options, shown in extracts on the next pages.

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

FM/AM Tuner module
18x FM + 6x AM memory stations

TP-10 USB



DAB Internet Radio
DAB/DAB+, FM-RDS, USB

TP-200 IR



CD/MP3-Player module
Repeat, Random, etc

CDP-10 USB



CD/MP3-Tuner module
RDS-Tuner and MP3-/CD-Player

CDR-10 USB



Digital text module
with timer functions, microSD-Card

DMT-10



BT-Player module
USB-Port/SD-Card, Remote

BM-10 U



For a detailed description of the modules see pages 126 and 127.

Model designations

Small central unit „VARIO-LINE“, 120 W, 3 RU .. **VLA-120 C**

Small central unit „VARIO-LINE“, 240 W, 3 RU .. **VLA-240 C**

EXAMPLE 1: Paging system with 5 speaker lines, total power 1680 W

VL-SERVICE 01

Up to 4 speaker zones are adapted to LINE level for cascading with further amplifiers:

30x BC-006



6x PB-730



40x RC-110



13x DH-130 S



1x PB-1210 S



BA-240 DP



BA-240 DP



BA-480 DP



BA-480 DP



4x 0-dB adjustment
(internal)



VLA-240 C



VLM-105



VLM-105



VLM-100 A

EXAMPLE 2: Medical practice with chime and siren

VL-SERVICE 03

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

Waiting Room

Doctors Room

Corridor 1 & 2

Reception

Treatment Room



Fire detection center

SIREN



CHIME

DCF-Radio clock timer

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.

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

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

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:

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

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

VL-SERVICE 05

Potential free contacts

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

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

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

VL-SERVICE 06

Ground leak monitoring

Module installation for ground leak monitoring:

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

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

VL-SERVICE 07

Microphone station extension

Attachment of the key modules in the VLE-004 Microphone stations VLM-105/106/205/206. The extension provides the following additional features:

- Covered alarm switch
- Two LEDs to indicate an error
- Three keys for special functions

Microphone station extension... **VL-SERVICE 07**

VL-SERVICE 08

MP3-/Micro-SD Card module for external start of audio files

Installation and wiring of the digital MP3/Micro-SD card module as well as a 10-pin plug-clamp connector on the rear of the device.

- LF output wired directly to the preamplifier unit
- At gong or siren sequence, all-call are activated via status output
- Power supply through mixing amplifier

MP3-/Micro-SD Card module... **VL-SERVICE 08**