LBB 1992/00 Plena Voice Alarm Router

- Six-zone router with single or dual channel operation
- Six EMG input contacts
- Six business input contacts
- Six volume override output contacts
- Supervision within the Plena Voice Alarm System (IEC 60849 compliant)

The Plena Voice Alarm Router is an expansion unit that can add six zones as well as 12 input and eight output contacts to the Voice Alarm System. It can use the built-in amplifier on the LBB 1990/00 Voice Alarm Controller, and provides inputs and outputs for one or two amplifiers in a multi-amplifier one or two-channel system.

It provides dual channel operation for calls and BGM simultaneously to a maximum of six different zones, using two Plena amplifiers. Additionally, single channel operation is possible with only one Plena amplifier.

Multiple routers can also share one amplifier, including the internal amplifier on the controller unit. It is possible to use any number of amplifiers from one up to the number of routers used. The controller supports A/B wiring.

Functions

The LBB 1992/00 has a set of relays for zone-switching the power amplifier output(s) to different loudspeaker groups. Each zone can be switched between:

- The call channel (call-station selection, all-call microphone, or emergency activation)
- The BGM channel (front panel selection)
- Off

Volume override relay contacts are provided for each zone separately for overriding local loudspeaker volume controls. This ensures that priority messages go through with a given volume, even though the local volume controls may be set to a low volume level for background music, for example. Both three-wire and four-wire override schemes are supported. A call or a triggered input will activate these contacts for the appropriate zones, together with an additional voltage-free contact (call-active) for control purposes.

An overload protected 24 VDC output provides power for driving external relays, making an external power supply unnecessary. The master output channel, or one of the input channels, can be selected to be monitored with headphone connector and LED meter.

Controls and indicators

Front

- Meter (LED's for -20, -6, 0 dB and Power ON)
- Eight system fault LEDs
- 12 loudspeaker line fault LEDs
- Six EMG call-zone selection buttons
- 12 EMG call-zone status LEDs
- Six BMG zone selector buttons
- Six BMG zone status LEDs

Back

- 2 x DIP switch
- Unit ID rotary control

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VA-LBB1992/00 Router

- Power switch
- Mains socket

Interconnections

Back

- 12 loudspeaker outputs
- Two external amp inputs
- Call output
- Six volume override outputs
- 12 trigger inputs
- RS-232 connector
- Two system interlinks
- Two external amp outputs (XLR/balanced)
- Power amp fault output
- 24 VDC power output
- 24 VDC power input
- Two extra trigger outputs
- Earth connection screw

Certifications and Approvals

Region	Certification	
Europe	CE	IEC 60849 Declaration of Conformity
Safety		acc. to EN 60065
Immunity		acc. to EN 55103-2
Emission		acc. to EN 55103-1
EVAC (TÜV certified)		acc. to IEC 60849

Installation/Configuration Notes

LBB 1992/00 rear view

Parts Included

Quantity	Component
1	LBB 1992/00 Plena Voice Alarm Router
1	Power cord
1	Set of 19" mounting brackets
1	Plena CD
1	Installation and User Instructions
1	XLR cable
1	Ethernet cable

Technical Specifications

Electrical

Mains power supply	
Voltage	230/115 VAC, ±10%, 50/60 Hz
Inrush current	1.5 A @ 230 VAC / 3 A @ 115 VAC
Max power consumption	50 VA
Idle / max load* current	0.2 A / 0.3 A
Battery power supply	
Voltage	24 VDC, +15% / -15%
Current max	1.8 A
Typical / max load* current	0.51 A / 1.5 A
Trigger Inputs	12 x (6 EMG, 6 business)
Connectors	MC1,5 / 14-ST-3,5
Activation	Programmable
Supervision	On EMG inputs, programmable
Supervision method	Series / parallel resistor
100 V input	
Connector	MSTB 2,5 /16-ST
Amp 1	100 V / 70 V / 0 V
Amp 2	100 V / 0 V
Power handling capacity	1000 W
Loudspeaker outputs	12 x (2 x 6 zones)
Connectors	MSTB 2,5 /16-ST, floating
100 V output	700 W rated per zone
Volume override types	3-wire, 4-wire (24 V), 4-wire failsafe
Output Contacts	
Connector	MC 1,5/14-ST-3,5
Rating	250 V, 7A, voltage free
General purpose relays (2x)	NO / COM

* Maximum load means maximum load on 24 VDC, and indicator test.

Mechanical

Dimensions (H x W x D)	88 x 430 x 260 mm (19" wide, 2U high)
Weight	Approx. 3 kg
Mounting	Standalone, 19" rack
Color	Charcoal

Environmental

Operating temperature	-10 °C to +55 °C (14 °F to +131 °F)
Storage temperature	-40 °C to +70 °C (-40 °F to +158 °F)
Relative humidity	<95%

VA-LBB1992/00 Router

Datablad

Ordering Information

LBB 1992/00 Plena Voice Alarm Router add six zones as well as 12 input and eight output contacts to the Voice Alarm System.	LBB1992/00

Accessories

PLN-VASLB-NL Plena VAS labels, Dutch (10 pcs) Dutch, set of 10 pieces, and can be placed on the front panel	PLN-VASLB-NL
PLN-VASLB-DE Plena VAS labels, German (10 pcs) German, set of 10 pieces, and can be placed on the front panel	PLN-VASLB-DE
PLN-VASLB-FR Plena VAS labels, French (10 pcs) French, set of 10 pieces, and can be placed on the front panel	PLN-VASLB-FR
PLN-VASLB-ES Plena VAS labels, Spanish (10 pcs) Spanish, set of 10 pieces, and can be placed on the front panel	PLN-VASLB-ES
PLN-VASLB-IT Plena VAS labels, Italian (10 pcs) Italian, set of 10 pieces, and can be placed on the front panel	PLN-VASLB-IT
PLN-VASLB-FI Plena VAS labels, Finnish (10 pcs) Finnish, set of 10 pieces, and can be placed on the front panel	PLN-VASLB-FI
PLN-VASLB-CZ Plena VAS labels, Czech (10 pcs) Czech, set of 10 pieces, and can be placed on the front panel	PLN-VASLB-CZ
PLN-VASLB-RU Plena VAS labels, Russian (10 pcs) Russian, set of 10 pieces, and can be placed on the front panel	PLN-VASLB-RU
PLN-VASLB-SE Plena VAS labels, Swedish (10 pcs) Swedish, set of 10 pieces, and can be placed on the front panel	PLN-VASLB-SE
PLN-VASLB-DK Plena VAS labels, Danish (10 pcs) Danish, set of 10 pieces, and can be placed on the front panel	PLN-VASLB-DK
PLN-VASLB-PL Plena VAS labels, Polish (10 pcs) Polish, set of 10 pieces, and can be placed on the front panel	PLN-VASLB-PL