

# LBB1992/00 Router

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Invented for life



- ▶ Expand the Plena Voice Alarm System with six zones
- ▶ EN 54-16 certified
- ▶ 12 additional input contacts
- ▶ Six volume override output contacts
- ▶ Supervision within the Plena Voice Alarm System

The LBB1992/00 Voice Alarm Router is an expansion unit that can add six zones and 12 input contacts to the Plena Voice Alarm System. It can use the built-in amplifier on the LBB1990/00 Plena Voice Alarm System 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 amplifiers. Additionally, single channel operation is possible with only one 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 LBB1992/00 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

- Two DIP switches
- Unit ID rotary control
- Mains voltage selector
- Power switch
- Mains socket

## Interconnections

### Back

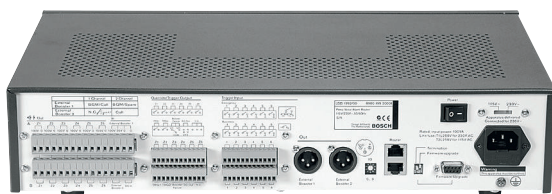
- 12 loudspeaker outputs
- Two external amp inputs
- Call output
- Six volume override outputs
- 12 trigger inputs
- RS-232 connector
- Two system interlinks
- Two external amp outputs (XLR/balanced)
- Power amp fault output
- 24 VDC power output
- 24 VDC power input
- Two extra trigger outputs
- Earth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

## Certifications and approvals

Safety	acc. to EN 60065
Immunity	acc. to EN 50130-4
Emission	acc. to EN 55103-1
Emergency	acc. to EN 54-16

Region	Regulatory compliance/quality marks	
Europe	DOP	DECL DOP EN54-16-PlenaVAS
	CPR	DECL CPR EN54-16-PlenaVAS
	CE	DECL EC LBB1992/00
Poland	CNBOP	

## Installation/configuration notes



LBB 1992/00 rear view

## Parts included

Quantity	Component
1	LBB1992/00 Voice Alarm Router
1	Power cord
1	Set of 19" mounting brackets
1	Safety 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	
Connectors	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	
Connectors	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	100 V, 2A, 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 and transport temperature	-40 °C to +70 °C (-40 °F to +158 °F)
Relative humidity	<95%

### Ordering information

#### LBB1992/00 Router

An expansion unit for adding six zones and 12 input contacts to the Plena Voice Alarm System.

Order number **LBB1992/00**

### Services

**EWE-ROUTER-IW 12mths wrty ext. Router**  
12 months warranty extension  
Order number **EWE-ROUTER-IW**

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