BOSCH

Invented for life

LBB 1925/10 Plena System Pre-Amplifier

▸ 6-zone system pre-amplifier, with single or dual channel operation

▸ Two inputs for call stations

▸ Universal input for microphone/line, with speech optimized tone control

▸ Three inputs for BGM selection and music optimized tone control

▸ Front panel zone selection for BGM and call station zone selection for calls

▸ PC and trigger inputs for automated calls, alarm tones and chimes to selected zones.

The Plena system pre-amplifier is a high-performance, versatile call and BGM (background music) mono pre-amplifier, capable of fulfilling a wide variety of public address requirements.

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

Functions

The call channel provides two inputs for Plena call stations, LBB 1941/00 (all-call) or LBB 1946/00 (6-zone), with loop-through capability, and a universal balanced input, having the choice of a 3-pin XLR connector for microphone or line level (selectable), or a 5-pin DIN-connector with all-call priority contact, which may also start one of the available chime attention signals.

The microphone input has a selectable speech filter for improved intelligibility, a volume control, and bass and treble tone controls with shelving characteristics optimized for speech. The call channel is available on the balanced XLR master output.

The BGM channel provides three inputs on stereo Cinch-connectors, converted to mono, with front panel

selection, volume control and bass and treble tone controls with shelving characteristics optimized for music. The BGM channel has a direct output on balanced XLR for dual channel operation. It can also feed the master output, with the lowest priority, for single channel operation. The routing of BGM can be selected by means of zone selector switches on the front panel. An emergency/telephone input with signal level detector (VOX) and rear volume preset may detect an audio signal and has the highest priority to all zones. Two trigger inputs (contact closure) control alarm or time signals to selectable zones. Many different chine tones are available for selection. Furthermore, a PC audio input with RS-232 control has been provided for PC control of zones or automatic messaging in combination with the Plena message manager.

There are six levels of priority available for BGM, microphone, call stations, trigger inputs and emergency input.

The LBB 1925/10 has a set of relays for zone-switching the power amplifier output(s) to different loudspeaker groups.

Each of the zones can be switched between the call channel (upon call-station selection or all-call microphone or emergency activation), the BGM channel (upon front panel selection), or off.

In order to get a message through (although the local volume controls may be set to a low volume level for e.g.

background music), override relay contacts are provided for each zone to separately override local loudspeaker volume controls. Both the 3-wire and 4-wire override schemes are supported. Upon a call or an activated trigger input these contacts will be activated for the appropriate zones, together with an additional voltage-free contact (Call Active) for control purposes.

Certifications and Approvals

EMC emission	acc. to EN 55103-1
EMC immunity	acc. to EN 55103-2

Installation/Configuration Notes

A 24 VDC output is available to supply power to external relays, so no external power supply is required. A headphone connector and LED VU-meter allows for monitoring of the master output.

Parts Included

Quantity	Component
1	LBB 1925/10 PLENA System Pre-amplifier
1	Power cord
1	Plena CD
1	19"mounting brackets

Technical Specifications

Electrical

Mains Voltage	230 VAC / 115VAC, ±15%, 50 / 60 Hz
Max Mains Power Consumption	25 VA
Battery Voltage	24 VDC, +20%/-10%
Max Battery Current	1A
Max Mains Inrush Current	1.5 A @ 230 Vac / 3 A @ 115 VAC

Performance

Frequency Response	50 Hz – 20 kHZ (+1/-3dB)
Distortion	<0.5%
Bass Control	±10 dB @ 100 Hz
Treble Control	±10 dB @ 10 kHz
Channel Separation	>70 dB @ 1 kHz
Priority Mute	>40 dB

Inputs

Mic in

Sensitivity	1 mV (microphone), 200 mV (line)
Impedance	>1 kOhm (mic.), >5 kOhm (line)
S/N (flat at max volume)	>63 dB (mic.), >70 dB (line)
S/N (flat at min volme/muted)	>75 dB
CMRR	>40 dB (50 Hz – 20 kHz)
Headroom	>25 dB
Speech Filter	-3 dB @ 315 Hz, high-pass, 6 dB/oct
Phantom Power Supply	16 V via 1.2 kOhm, in mic. mode only

3 Cinch inputs (unbalanced, stereo converted to mono)

Sensitivity	200 mV
Impedance	22 kOhm
S/N (flat at max volume)	>70 dB
S/N (flat at min volume/muted)	>75 dB
Headroom	>25 dB

Outputs

Master Out (3-pin XLR, balanced)

Nominal Level	1 V
Impedance	<100 ohm

Music Output (3-pin XLR, balanced)

Nominal Level	1 V
Impedance	<100 ohm

Tape Output (Cinch, 2 x mono)

Nominal Level	350 mV
Impedance	<1 kOhm

Headphone output (6.3mm jack stereo, signal mono)

Nominal Level	3 V
Impedance	<100 ohm
Zone Relays	250 V / 5 A

Interconnection

Interconnection/emergency input (3-pin XLR, balanced)	
Sensitivity	200 mV (interconnection),
	100 mV – 1 V adjustable (emergency)
Impedance	>10 kOhm
VOX Threshold	45 mV emergency
Interconnection output (3-pin XLR, balanced)	
Nominal Level	200 mV
Impedance	<100 ohm

Relays

Priority Relay Contacts	30 V, 1 A
Emergency Relay Contacts	30 V, 1 A
DC Supply Output Voltage	24 V, 250 mA max

Environmental

Operating Temperature	-10ºC to +55ºC
Storage Temperature	-40ºC to +70ºC
Relative Humidity	<95%
Dimensions	100 x 430 x 270 mm (19" wide, 2U high)
Weight	approx. 5 kg
19" Mounting Brackets	included

Ordering Information

Model | Description

LBB 1925/10 Plena System Pre-Amplifier

Hardware Accessories

LBC 1901/00 Rack Mount Kit
   For Plena amplifier, 19-inch