

Mixer Loop Amplifier (For Deaf Person Application)

HML-10A



Features

- High power current driven amplifier
- Power output 240 watts 10A
- Three mic/line inputs, one priority input (100 V)
- Selectable frequency range and tone controls
- Limiter and Automatic Gain Control
- Integrates in an voice evacuation system
- Coverage around 600m per amplifier
- Volume control for inputs 1-3 and master, treble & bass tone control
- Extensive protection includes high temp, overload and short circuit

Description

The Loop Amplifier is a cost-effective amplifier designed to drive a wire loop installed in the 2 floor or ceiling of a venue up to 600 m per amplifier. This solution enables hearing-aid users in the area enclosed by the wire loop to hear all announcements, soundtrack or music. Hearing-aid users can set their devices to the T-mode setting to receive the signal coming from the loop to receive excellent audio-quality announcements, without the

Functions

The loop amplifier can be connected to a mixing amplifier's line level output, or it can accept up to three microphone/line signals directly. A 100 V priority input is available for uplink to a voice alarm system. This input can be monitored for the presence of a pilot tone. The built-in supervision monitors all key functions of the loop amplifier, and the fault state is available on a fail-safe relay. The Loop amplifier is fitted with a limiter to limit the output field strength to the prescribed 100 mA/m. This circuitry can also be set to function as an Automatic Gain Control (AGC), so those soft signals are boosted for intelligibility while loud signals are attenuated so that all information is presented at a comfortable listening level. To adjust the sound to the program material and the environment, tone controls and a metal loss compensation circuit is available. After installation the controls can be locked to prevent unwanted access. Even though one Loop Amplifier can cover up to 600m , the Loop Amplifier is stackable (master/slave configuration), to cover very large areas. Also, low spill schemes are supported. Its unique quadrate configuration provides uniform field strengths over multiple loops

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Specifications

Model	HML-10A
Max Output Current	10A
Rated Current Outputs	7A
Input Sensitivity & Impedance	Input1-3(MIC): 2.5mV/600 , Balanced XLR input Input1-3(LINE): 775mV/10K , Balanced XLR input
Output Sensitivity & Impedance	1V/470 , Balanced XLR output
Tone Control	Bass: 10dB at 100Hz , Treble: 10dB at 10KHz
Frequency Response	50Hz~10KHz (3dB)
S/N Ratio	66dB
THD	Less than 0.1% at 1KHz, 1/3 rated power
Muting Function	Input 1 overrides other input signals with 0-30dB attenuation
Connector	Screw
Master Input	Connector 1/4" TS jack
Crosstalk	50dB
100V Input	Transformer balanced. Impedance >100k
90 Slave Output	1V/470 , Unbalanced Connector 1/4" TS jack
0 Slave Output	1V/470 , Unbalanced Connector 1/4" TS jack
Phantom Power	+48V
Cooling	Fan automatically start up when temp reaches 55
Protection	High temp, overload & short-circuit
Power Supply	~110V/60Hz or ~230V/50Hz
Power Consumption	500W
Weight	10.3Kg
Dimensions	484x303x88mm
Finish	Panel: aluminum plate, black , Case: steel plate, black

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