

XL-500R Induction Loop Amplifier

The XL-500R is specially designed loop amplifier covering loop areas up to 500m².

- All controls accessible from front panel, with inputs and outputs at rear
- Designed for stand alone operation or in conjunction with public address sound reinforcement systems
- Switchable AGC function indicated by a LED
- All inputs electronically balanced
- 19" rack mounting



The XL-500R is a specially designed audio frequency induction loop amplifier. It can operate on its own or with an existing public address system. A useful safety feature is the standby mode, which operates if there is no signal input for 5 minutes.

There are three inputs, all electronically balanced and equipped with XLR connectors, LINE 1, LINE 2 and MIC.

LINE 1 has a switchable AGC function with a visual LED indicator. LINE 2 and MIC have no AGC function. The MIC input is designed to relay ambient sounds, for example: a choir singing or general ambient sounds. The MIC input can also handle high sensitivity

microphones such as pressure zone microphones, as a 48V phantom power supply is available on the microphone input connector.

A bank of 4 LED's give a visual indication of loop current output from 2 to 15 amps.

The output stage is designed for a two-turn loop.

Advanced signal processing in the output stage means that maximum speech intelligibility is maintained even at high loop currents.

The XL-500R is an excellent complement to all types of sound reinforcement systems in public areas such as assembly halls, cinemas, theatres, places of worship, etc.

TECHNICAL SPECIFICATION:

Power supply: 230-240V AC/50 Hz

Coverage: Theoretically - 500 m²
Cable rec.: 150 - 250m² - use 2 x 0,75mm² wire
250 - 350m² - use 2 x 1,50mm² wire
250 - 500m² - use 2 x 2,50mm² wire
Always use 2-turn loop configuration

Inputs

LINE 1: 15mV-10mV/80k Ω , S/N - 68dB(A)
Electronically balanced
AGC function
LINE 2: 150mV-5,5mV/80k Ω , S/N - 68dB(A)
Electronically balanced

MIC: 0,8 mV-30 mV/4,5k Ω S/N - 65dB(A)
Electronically balanced, 48V phantom power for condenser or electretmicrophone

Auto switch-on: >12dB below input sensitivity
Auto standby: When no input signal for more than 5min

AGC

Control range: > 70 dB

Equalizer: Bass \pm 9dB, 500Hz
Treble \pm 9dB, 1,2kHz

Output LOOP, 4-pin spring clip terminal block

Max output current: 15A RMS /1 Ω (125ms)

Max output voltage: 40V RMS /18 Ω (125ms)

Distortion: 1% - 1 Ω load, 1 kHz)

Frequency range: 100Hz-5,5kHz (\pm 3dB)

Dimensions: 483x88x280 mm (WxHxD), 19", 2U

Weight: 7,5 kg

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