

LA-402 - Loop Amplifier



Active loop amplifier,

with dynamic compressor for setting up an audio induction loop system in large rooms up to 750 m².

Inductive transmission of audio signals allows users of hearing aids with a T-coil or induction loop receivers, e.g. the LR-202, to receive audio signals. Wireless transmission is an advantage of audio induction loop systems which makes it possible for the user to move freely within the loop.

Audio induction loop systems are used for various applications, e.g. as a hearing aid for the hearing impaired in houses of worship, theatres, cinemas, waiting rooms and lounges, as interpreting systems, for lectures in museums, exhibitions, etc.

With audio induction loop systems, an induction loop made of a wire winding is laid on the floor, the wall or along the ceiling and is controlled by a constant current amplifier. Thus, a magnetic field is created within the loop which induces a voltage into the T-coil of the hearing aid or into the induction loop receiver. In the receivers, this voltage is then converted again into an audio signal.

- Dynamic compressor
- Automatic talkover
- Metal loss correction 0-3 dB/oct.
- 3 mic/line inputs with 40 V phantom power, to be switched on additionally
- 6.3 mm input for inserting external devices

- Integrated SD card reader for reproduction of stored alarm messages
- 2-way tone control
- LED level meter
- 482 mm (19") rack installation with supplied mounting brackets

Technical data:

Loop current	: 14 A (peak)
Loop resistance	: 0.2-2 Ohm
Room size	: up to 750 m ²
Inputs	: mic 1.5 mV/6.8 kOhm, XLR, bal. switchable to line 630 mV/10 kOhm, XLR, bal. line 630 mV/4.7 kOhm, RCA, unbal. alarm: 2 screw contacts for connecting a switch
Outputs	: loop: 2 screw contacts
Equalizer bass	: ± 10 dB, 100 Hz
Equalizer treble	: ± 10 dB, 10 kHz
Frequency range	: 50-8,000 Hz
THD	: < 1%
Admiss. ambient temp.	: 0-40 °C
Power supply	: \approx 230 V/50 Hz/230 VA
Dimensions	: 482 x 88 x 280 mm, 2 RU
Weight	: 6.97 kg