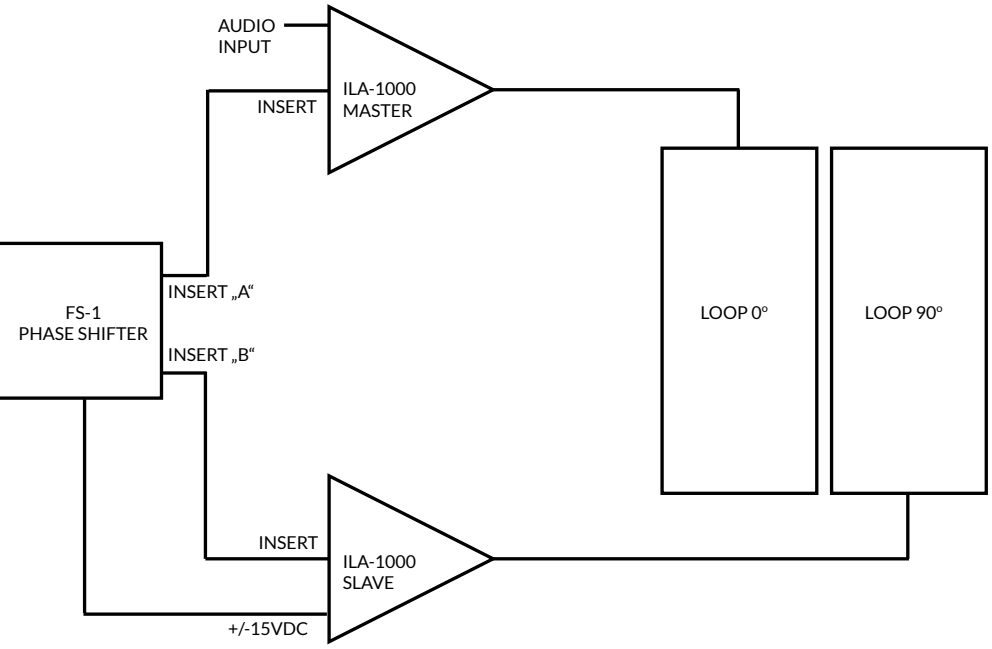
+30 YEARS of Expertise

Made in EU

PHOENIX PROFESSIONAL-AUDIO

ILA-1000

INDUCTION LOOP AMPLIFIER



DIN EN 60118-4

For systems acc. to EN 60118-4 IEC 118-4

Fig.: Model ILA-1000, front & rear side

ILA-1000

Automatic Induction loop amplifier

DIGITAL AUTOMATIC AUDIO SIGNAL COMPRESSOR **2-POINT** **MLC CONTROL**

The professional solution for the construction of induction loops: the automatic loop amplifiers of the PHOENIX ILA series.

The audio transmission **ILA-1000 induction loop amplifier** is widely used to provide hearing aids with inductive audio signals.

The system was developed as a high-quality LOOP amplifier for medium induction loops.

The system is characterized by its **easy installation** and **customer-oriented operation** with **optimum performance**.

Induction loop amplifiers are often used in **churches, cinemas, theaters, outlets, bank counters, interpreting systems, or DRIVE-INs or DRIVE-THROUGHs**, so that hearing aid wearers can hear much better in severe acoustic conditions (background noise, reverberation, etc.) without disturbing noises.

The ILA loop amplifier is used wherever an induction transmission is installed.

The amplifier is also particularly suitable for people who need a high quality „wireless“ hearing aid system without having to use a real hearing aid, such as channel interpreter systems.

Specials

SYSTEM ADVANTAGES

Due to the inductive coupling of hearing aids, the useful signal (audio transmission) can be heard much better without disturbing noises.

By transmitting an audio signal through the induction loop, an acceptable signal-to-noise ratio is achieved.

USEFUL INFORMATION

A purely acoustic, direct sound transmission (between loudspeaker and hearing aid) significantly worsens the perception of the useful signal by the hearing aid wearer due to reverberation and background noise.

RECEIVER ILA-E

The **induction loop receiver ILA-E** *(separatly available; see "Accessories")* makes it easy to quickly check or maintain a loop system.

Fig.: ILA-E Induction loop receiver

ILA-1000 - *Continued on the following page*

ILA-1000 – *Continued from previous page*

Technical Data	ILA-1000
Audio inputs / outputs	MIC.-1, MIC.-2 / LINE, balanced on XLR, INSERT, 0 dB LINE input on JACK
Audio sensitivity	- 50 / -70 dB MIC. / 0dB LINE
Compressor / limiter	Automatic (3 dB to 33 dB)
Dimensions / color	(W) 443 mm x (H) 44 mm x (D) 205 mm, graphite, without 19" mounting bracket (1 U)
Display LEDs	Overload, Output Level (-27 dB to 0 dB), Compressor (3 dB to 33 dB), Error, Temp, Power
Dynamics / frequency response	80 Hz - 7 kHz (-1.5 dB)
Equalization	LF-EQ / HF-EQ (+/- 12 dB)
Freq. Correction at LOOP-OUT	yes, MLC regulation
Induction loops measurement	in the range 0.5 - 3.0 O
Info LOOP / AMP CONTROL	28VDC / 2A, 125VAC / 0.5A
Loop impedance	0.5 - 3.0 Ohm
LOOP Output Power	P max. 135 W
Loop Output Power	Automatic adaptation to the LOOP impedance (9.4 A max.)
Weight	about 4.2 kg
Option	90° frequency modulator, receiver ILA-E available
Phantom Power	switchable 15 VDC
Max. current consumption	300 VA
Power supply	230 VAC - 50/60 Hz
Protection circuits	Current limit (short circuit), over temperature protection, soft start
RMS current (at 1 kHz)	> 9.4 A
Temperature Monitoring	System shutdown at 92C° , system activation at 60C°
THD	< 0.25%

Important

In a well visible position near the entrance to the area where an induction loop is installed, the inductive coupling symbol should be placed.

Specials

- **Digital Automatic Audio Signal Compressor**
- **Loop detector for automatic measurement and power adjustment to the loop impedance**
- **Equalization by 2-point LF / HF -EQ**
- **„MLC“ scheme for correction of frequency errors**
- **All controls are recessed and provide protection against incorrect operation**

Phased Array System

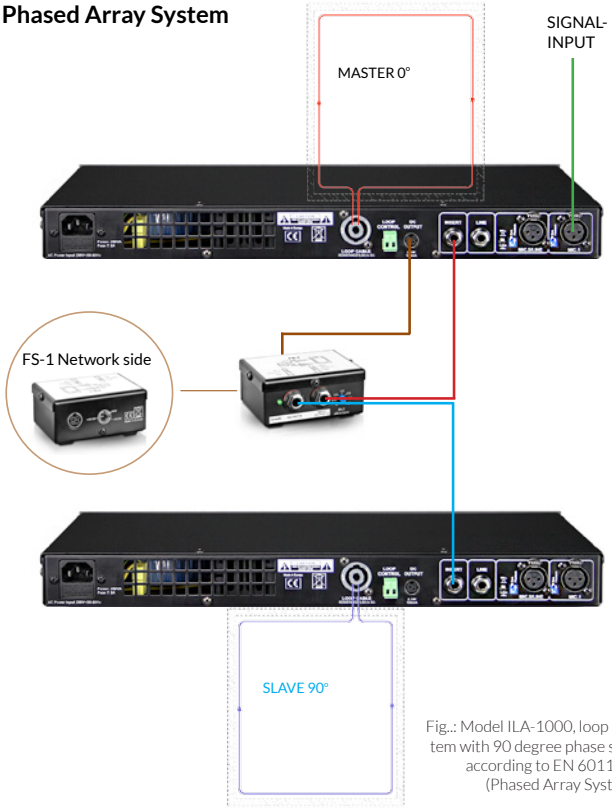


Fig.: Model ILA-1000, loop system with 90 degree phase shift according to EN 60118-4 (Phased Array System)

Further details -
in the online shop

ILA-1000 >>

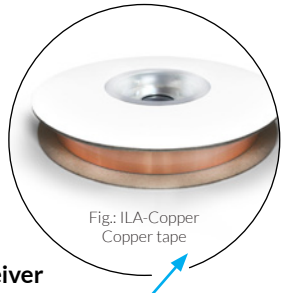


Fig.: ILA-Copper
Copper tape

Accessories

ILA-E .....Induction loop receiver
FS-1 .....Signal processor 90˚ phase shift
ILA-COPPER .....Copper tape for induction loops

ONLINESHOP *link:*

ILA-1000 >>

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