

ILD100 Audio Induction Loop Driver

The ILD100 audio induction loop driver is in a class of its own. This compact and stylish unit is capable of driving loop areas in excess of 100m² with an unrivalled clarity of sound for superior intelligibility. Based on proven and highly reliable technology it is backed by a full 5 year warranty and free technical support. All connections are plug and socket style for simple quick installation. Configuration VOX switching sets priorities for each input. Twin phono (RCA) inputs provide a simple interface to hi-fi systems and televisions. Available with a range of microphones, interface cables and accessories. Freestanding or wall mounted, the ILD100 is the obvious choice for smaller installations such as video conference rooms, private homes, TV rooms, nursing homes, receptions and waiting rooms.

MICROPHONE LINE SWITCH MICROPHONE 1 MICROPHONE 2 LINE Compression Loop Current DRIVE Power TONE For Mode Switch settings see the Instruction Handbook For Mode Switch settings see the Instruction Handbook INDUCTION LOOP DRIVER ILD 100 Designed and Manufactured in England by AMPETRONIC Ltd. Power 20W 230 V ~ 45 - 65Nz WARNING: Live Terminals enclosed C C LOOP RESISTANCE 0.2 - 0.87

Features

- Area coverage to > 200 m²
- Low lifetime cost
 - · Excellent proven reliability
 - 5 year warranty
- Unrivalled intelligibility
- VOX switching configured to prioritise Mic 1 input
- · Built in tone control
- Very compact 216 x 124 x 44mm
- 2 microphone inputs (electret)
- 1 line input twin phono (RCA) connectors for TV / hi-fi connection
- Input adaptors and accessories for any audio input requirements, e.g. SCART lead, assorted microphones
- Free technical support line for advice, design and install

Applications include:

- · Video conference facilities
- Meeting rooms
- Small seminar rooms
- Television rooms
- Nursing homes
- Private homes
- Receptions and waiting rooms
- DC version for minibuses, boats, cars etc.

Perimeter Loops - Area Coverage (maximum)

Room aspect ratio	1:1	2:1	3:1
Maximum area m ²	120	150	200

For any Induction Loop System, area coverage is dependent on several factors. Please check these assumptions and contact Ampetronic for advice if required:

- loop must be 1-2m above or below the receiver height
- there should be no metal structures in the plane of the loop
- sufficient voltage to drive the loop check the cable table below

Maximum Cable Length

The ILD100 is designed for SINGLE TURN loops for optimum audio quality. When maximum current output is required the ILD100 can drive:

- \bullet Loops with DC resistance from 0.2 to 0.8 Ω
- Impedance up to a maximum of 1.2 Ω

When operating below maximum output, the ILD100 can drive longer cable lengths – contact Ampetronic for more details.

Maximum cable length is dependent on cable type and on the application:

Cable type	Maximum Total Cable Length (m)		
	Normal use*	Transient speech*	
1.0mm ² copper	45	52	
1.5mm² copper	54	65	
2.5mm² copper	62	79	
1.8mm² flat copper tape	80	93	

^{*} Short term speech (e.g. service counter, airport PA system) can cope with limited clipping at high frequencies – Ampetronic recommends delivery of full current up to 1.2kHz for these applications. Longer term usage or signals with music or high quality audio must deliver full current to at least 1.6kHz to prevent fatigue and give acceptable intelligibility. Many commercially available systems do not deliver sufficient voltage to reproduce critical high frequencies – ask Ampetronic for more details.

ILD100 Product Information

Equipment supplied as standard with the ILD100

- · Handbook and installation instructions
- 99 x 128mm loop system present sign (deaf logo)
- Region specific mains cable
- 1 microphone (see options table)
- 1 SCART to phono cable

Ampetronic can supply an extensive range of additional accessories for installation – discuss your requirements with our sales team and we will provide materials and equipment to suit your application.

Microphone options

The ILD100 can be purchased as a stand-alone unit or with microphones. If you require additional options, please contact Support for specification or supply of a microphone to suit your application (Microphones pictured below).

	Microphones	Product code /	details
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Tie clip microphone EM336: Diameter 10 x 18mm long, supplied

with tie clip (crocodile clip) and 3m cable.

Desktop microphone EM195A: Footprint 93 x 76mm. Directional

microphone for improved sound pickup. Weighted base for stability. Mounted on horizontal or vertical surface (mounting accessories supplied). 3m cable.

Boundary microphone Q400: AKG manufactured hypercardioid

boundary microphone 43 x 23mm footprint. can be fixed to any flat surface. 3m cable.

Input adaptors and preamplifiers

By using the appropriate input adaptor or preamplifier the ILD 100 will accept multiple additional inputs or audio inputs from other sources:

Input type	Adaptor
Balanced dynamic microphone (XLR)	MAT60

Balanced capacitor 15V MAT60 + 15V PSU

Balanced line level ATT100-T40

70V / 100V line inputs, ATT100-T70 transformer isolated

Low impedance speaker line, ATT100-T60 transformer isolated

Standards compliance

phantom power microphone (XLR)

The ILD100 is CE marked to all relevant safety and EMC standards.

All Ampetronic amplifiers can be used to create a sytem that meets the requirement of IEC118-4 and the relevant recommendation of BS7594. However, the design and installation of the system is equally important to meet these Induction Loop standards.



AMPETRONIC





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INPUTS

Power 15W 230V AC nominal, 45-65Hz

120V and 12V DC options also available.

Power switch and LED indicator on front panel.

Microphone

input

2 inputs: 3.5mm mono connector for electret mircophones. DC powering for electret capsules. (Requires MAT60 adaptor to

take XLR balanced microphone input). Front panel recessed gain control.

Line input 2 x phono (RCA) connectors, impedance $60k\Omega$ each side,

 $20 k\Omega$ differential. Sensivity matched to SCART signal level.

Front panel recessed gain control.

OUTPUTS

Drive voltage Minimum voltage >4V at maximum current output.

Drive current • 1kHz sine wave peak: 4.8A

Short term peaks: >7A

Front panel recessed drive control; Front panel LED

indicates current peaks

Loop connector Lever cable clamp.

AUDIO SYSTEM

Freq. response 80Hz to 6.5kHz

Automatic The AGC is optimised for speech. Dynamic range >36dBu.

Gain Control Front panel recessed control.

Tone control Front panel recessed control.

ADDITIONAL FUNCTIONS

VOX To control prioritisation of microphone 1 input. 4 different switching actions when microphone 1 level is at the onset of compre

actions when microphone 1 level is at the onset of compression. Options to attenuate or turn off other inputs when microphone 1 is active, and to turn microphone 1 off when below threshold

if required.

Mobile A DC version is available which provides similar performance for

applications mobile applications, powered from a 12V DC supply.

Cooling Cooling is by natural convection from the product casing.

PHYSICAL

Size Width 124mm Depth 216mm Height 44mm.

Mounting • Freestanding

• Wall mounting – mounting holes provided on rear panel

Weight 1.3kg

Environment IP20 protection; 20 to 90% relative humidity; 0 to 35°C.



