

AMPETRONIC

**HLS-2A
Hearing Loop Driver
Installation Handbook**

www.ampetronic.com

Handbook Contents

- Safety
- Installation & Connection
- Specification
- Warranty Information
- Declaration of conformity

Box Contents

- 1 x HLS-2A
- 1 x O-Ring
- 2 x Lid screw (M3x8)
- 1 x Wago Terminal Tool
- 1 x Handbook (this document)





This symbol is used to alert the user to important operating or maintenance instructions.



The Lightning bolt triangle is used to alert the user to the risk of electric shock.

SAFETY

1. It is important to read these instructions, and to follow them.
2. Keep this instruction manual in an accessible place.
3. No user serviceable parts. Refer all servicing to qualified personnel.
4. Clean only with a dry cloth. Cleaning fluids may affect the equipment.
5.  Install in accordance with the manufacturer's instructions.
6. Do not install this equipment near any heat sources such as radiators, heating vents or other apparatus that produces heat.
7. Refer all servicing to qualified personnel. Servicing is required when the apparatus has been damaged in any way, such as a power supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to any rain or moisture, does not operate normally or has been dropped.
8.  **WARNING** – To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture. The apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the apparatus.



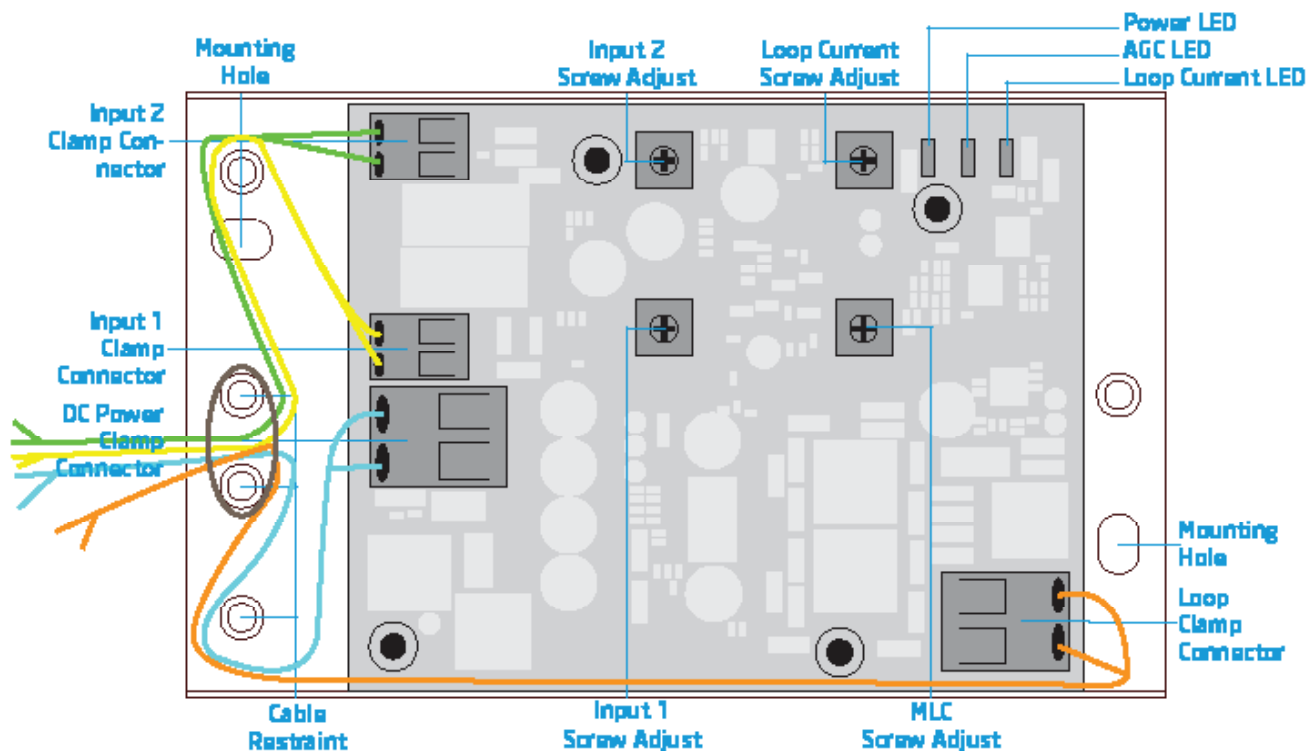
CAUTION

**RISK OF
ELECTRIC SHOCK**

**TO PREVENT ELECTRIC SHOCK REFER
SERVICING TO QUALIFIED PERSONNEL**

Installation and Connection

1. The unit can be securely mounted using the 2 x M4 mounting holes.
2. Connect loop feed cable to the loop clamp connector (see diagram).
3. Connect the low impedance speaker cable and/or other input connection
4. Observing correct polarity, connect the DC power supply and apply power (see diagram). The power indicator will illuminate.
5. With the input signal on, increase the Input control until the green AGC LED illuminates with a normal signal.
6. Adjust the Output control until the amber Current LED is illuminated with signal peaks.
7. Use an Ampetronic FSM to test the system and adjust as required to be consistent with the requirements of the latest IEC 60118-4 Standard. Use the MLC control to adjust for high frequency loss.
8. Wind the cable through the restraint posts as shown in the image below.
9. Fit the O-ring to hold the cables in place.
10. Fit the lid using 2 screws, posting the cables through the mousehole.



Fault Conditions

Overheating: The amplifier will output max rated sine current for 1 minute into rated load. After this period an internal protection mechanism will attenuate the output.

Overcurrent / Overvoltage: The amplifier will shutdown if its capabilities are exceeded for a short period. The amplifier will resume normal operation when operated within the normal parameters.

Technical Specifications According to IEC 62489-1:2014 Standard

PARAMETER		VALUE
Max area coverage		45m ²
Power supply range		12-24V DC
Fuse		PTC resettable 1.5A
Current consumption (12V DC)	Continuous pink noise	240mA DC
	Quiescent	50mA DC
	Short term peak	1200mA DC
Sensitivity Input 1 - Line		-16dBu
Sensitivity Input 2 - Line		-16dBu
Overload (Line channels)		+22dBu
Current (into rated load)	Sine 1kHz	>3A _{RMS}
	Pink Noise	>1.5A _{RMS}
Frequency response (0.6A _{RMS})		100Hz to 5kHz ± 1.5dB
Compliance voltage		4.2V _{RMS}
Weight		243g
Dimensions		124 x 77 x 16mm
Connectors		Clamp Terminals
Environmental		IP20, -30°C to +75°C, <90% relative humidity
Typical heat dissipation		<3W

WARRANTY

This product carries a five year parts and labour warranty from date of shipment from Ampetronic. To qualify for the five year warranty, the product must be registered at www.ampetronic.com (products/warranty), without which the warranty will be valid for two years only.

The warranty could be invalidated if the instructions in this handbook are not followed correctly, or if the unit is misused in any way.

DECLARATION OF CONFORMITY

Manufacturer: Ampetronic Ltd.
Unit 2, Trentside Business Village, Farndon Road, Newark, Nottinghamshire,
NG24 4XB, United Kingdom.

Declares that the product:

Description: Induction Loop Driver

Type name: HLS-2A

Conforms to the following EU Directive(s) and UK Statutory Instrument(s):

EMC: 2014/30/EU and 2016 No.1091

EN 55032:2015 Emissions,

EN 55035:2017 Immunity

Electrical Safety: 2014/35/EU and 2016 No.1101

EN 62368-1:2020

RoHS: 2011/65/EU and 2012 No.3032

REACH: 2006/1907/EC and 2020 No.1577

Date: March 2022

J.R. Pieters

Managing Director, Ampetronic Ltd