



AMPETRONIC HLS-2C Active Hearing Loop Panel Instruction Manual

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AMPETRONIC HLS-2C Active Hearing Loop



Ampetronic HLS-2C Active Hearing Loop Panel

The Ampetronic HLS-2C Active Hearing Loop Panel is a device designed for hearing-impaired individuals to aid them in hearing sounds more clearly. The device uses an induction loop to transmit sound signals directly to hearing aids equipped with a “T” (telecoil) setting. The device comes with an installation handbook containing safety instructions, installation and connection instructions, and fault conditions.

Safety Instructions

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.

- Read and follow the instructions carefully.
- Keep the instruction manual in an accessible place.
- Do not attempt to service the device yourself. Refer all servicing to qualified personnel.
- Clean the device only with a dry cloth. Cleaning fluids may affect the equipment.
- Install the device in accordance with the manufacturer's instructions.
- Do not install the device near any heat sources such as radiators, heating vents, or other apparatus that produces heat.
- If the device 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, refer all servicing to qualified personnel.
- 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.
- To prevent electric shock, refer servicing to qualified personnel.

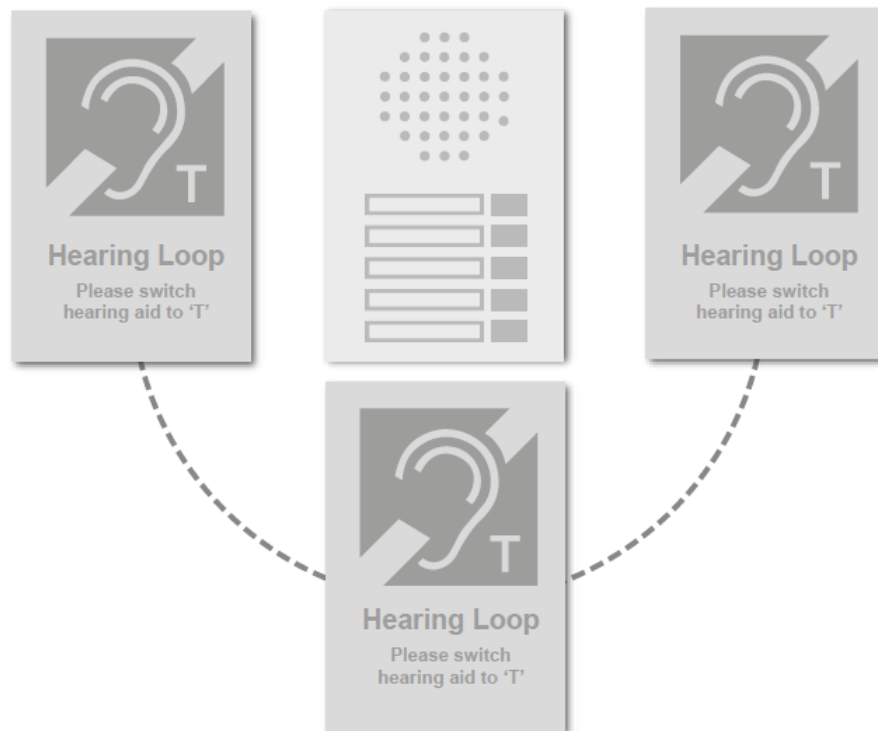
Installation and Connection Instructions

1. Securely mount the unit using the 3 x M4 mounting holes.
2. Check that the loop feed cable is connected to the clamp connector.
3. Connect the low impedance speaker cable and/or other input connection.

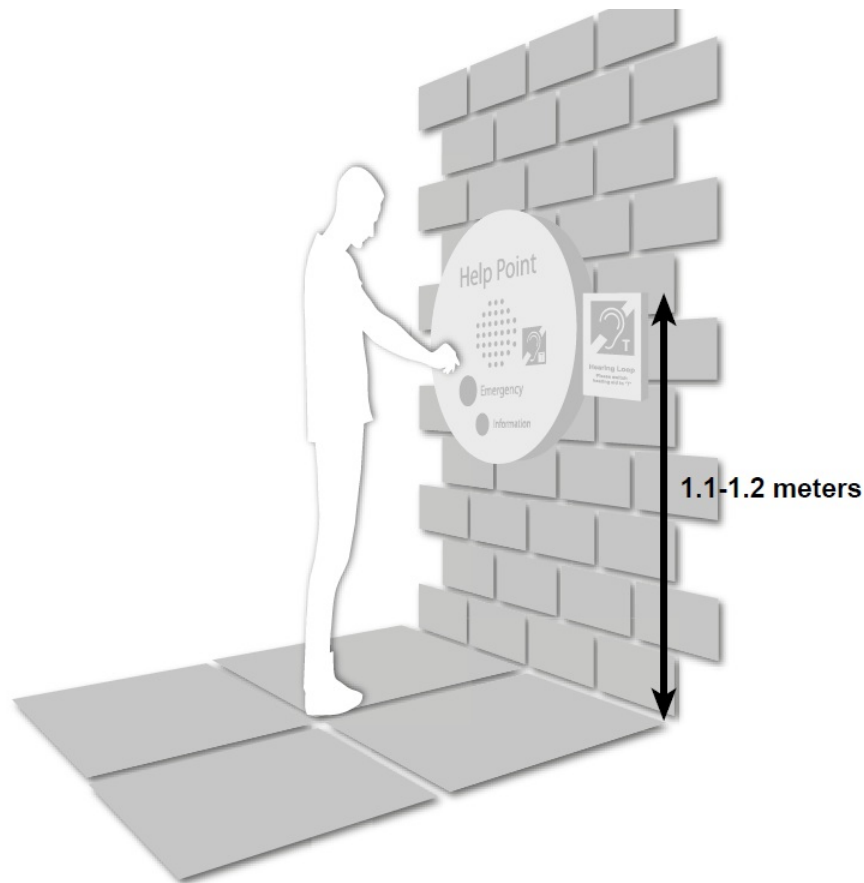
4. Observing correct polarity, connect the DC power supply and apply power. The power indicator will illuminate.
5. With the input signal on, increase the Input control until the green AGC LED illuminates with a normal signal.
6. Adjust the Output control until the amber Current LED is illuminated with 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.
8. Fit the lid using 4 screws, posting the cables through the mousehole.



- The unit can be mounted below or at the side of the intercom panel.



- Height of approximately 1.1-1.2 meters (4 feet)



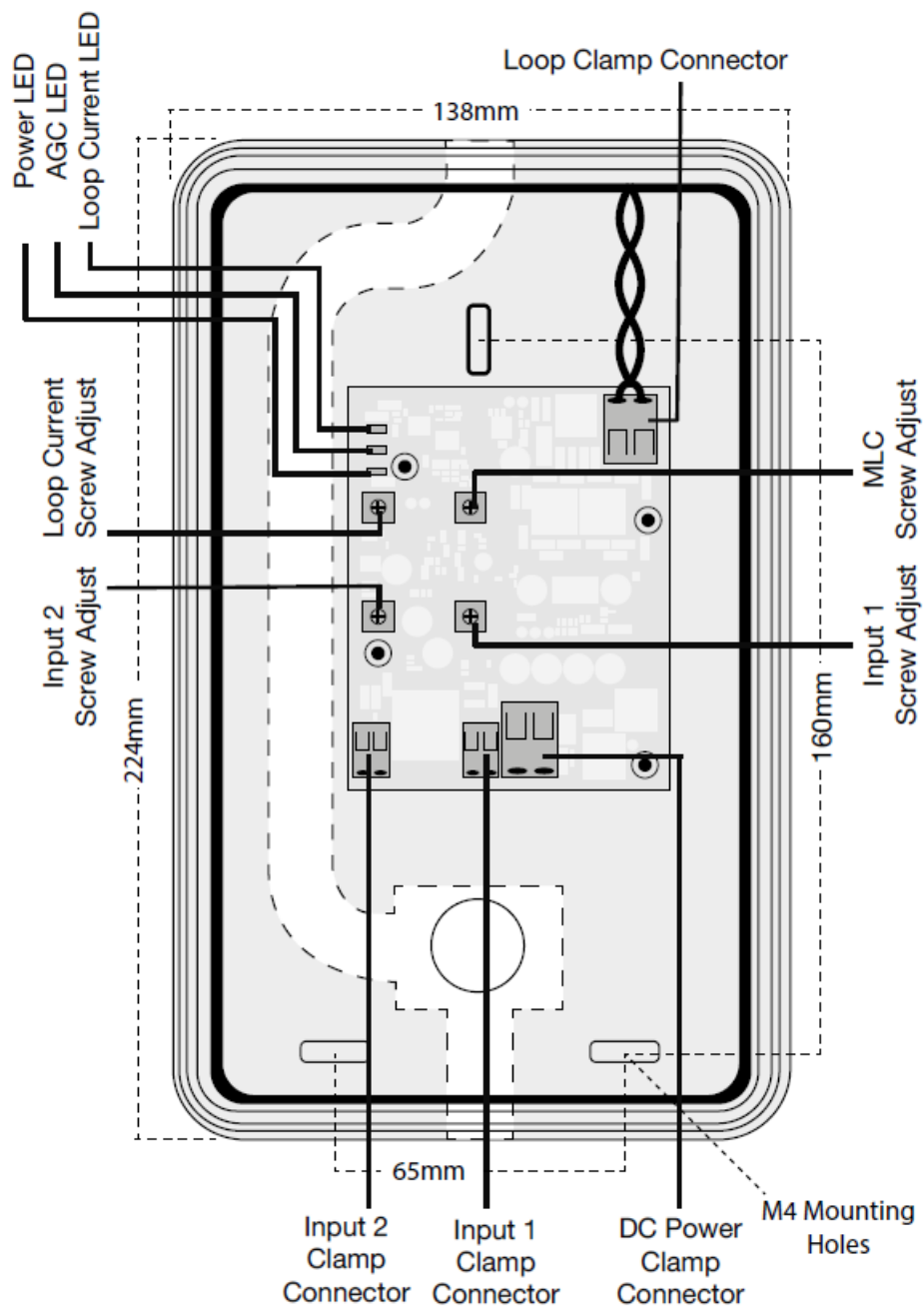
Fault Conditions

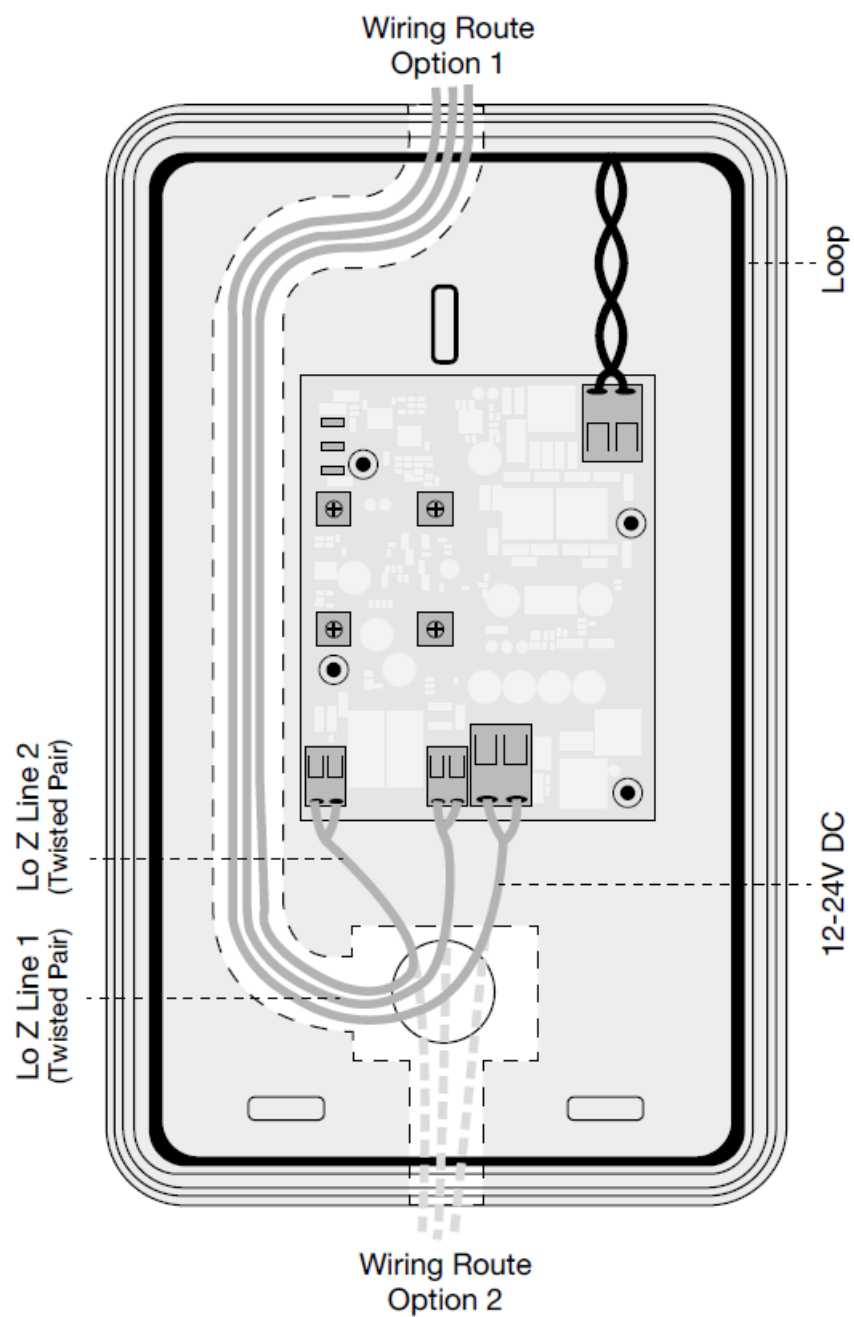
- Overheating: The amplifier will output max rated sine current for 1 minute into rated load. After this period an internal protection mechanism will attenuate the output.
- Overcurrent/Overvoltage: The amplifier will shutdown if its capabilities are exceeded for a short period. The amplifier will resume normal operation when operated within the normal parameters.

Box Contents

- 1 x HLS-2C Active Hearing Loop Panel
- 4 x Lid screw (M5X10)
- 1 x Wago Terminal Tool
- 1 x Control Card
- 1 x Handbook (this document)

Wiring Diagram





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
	Quiescent (Power Save mode)	14mA 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	>3ARMS
	Pink Noise	>1.5ARMS
Frequency response (0.6ARMS)		100Hz to 5kHz \pm 1.5dB
Compliance voltage		4.2VRMS
Weight		390g
Dimensions		224 x 138 x 22mm
Connectors		Clamp Terminals
Environmental		IP55, IK08, <90% relative humidity, -30 to 75 °C
Typical heat dissipation		<3W maximum, normally less

HLS-2C Casing Specification

- Manufacturer: CHI MEI CORPORATION
- Part Number: PC-ABS, PC-510, H17504(PANTONE,COOL GRAY 6C)
- Flammability: V0

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.

Manufacturer

- Manufacturer:

Ampetronic Ltd.

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

Declares that the product:


- Description: HLS-2C
- Type name: Active Loop Panel

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

- Directive 2014/30/EU and 2016 No.1091
- EMC: EN 55032:2015 Emissions,
EN 55035:2017 Immunity
- Directive Electrical Safety: 2014/35/EU and 2016 No.1101
- Safety: EN 62368-1:2020
- Directive RoHS: 2011/65/EU and 2012 No.3032
- Directive REACH: 2006/1907/EC and 2020 No.1577

Date: March 2022

Documents / Resources

	<p>AMPETRONIC HLS-2C Active Hearing Loop Panel [pdf] Instruction Manual UP19701-5, HLS-2C Active Hearing Loop Panel, HLS-2C, Active Hearing Loop Panel, Hearing Loop Panel, Loop Panel, Panel</p>
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