

AMPETRONIC

HLS-2C
Active Hearing Loop Panel
Installation Handbook

www.ampetronic.com

Handbook Contents

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

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)





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.



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

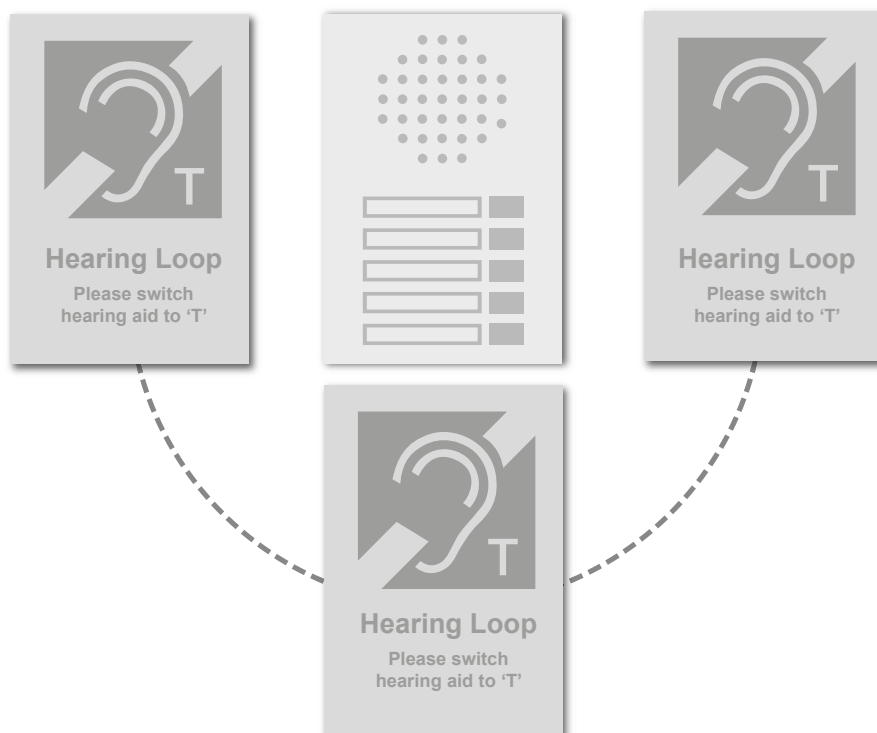
Installation and Connection

1. The unit can be securely mounted using the 3 x M4 mounting holes.
2. Check loop feed cable is connected to the 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. Fit the lid using 4 screws, posting the cables through the mousehole.



Installation and Connection

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



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

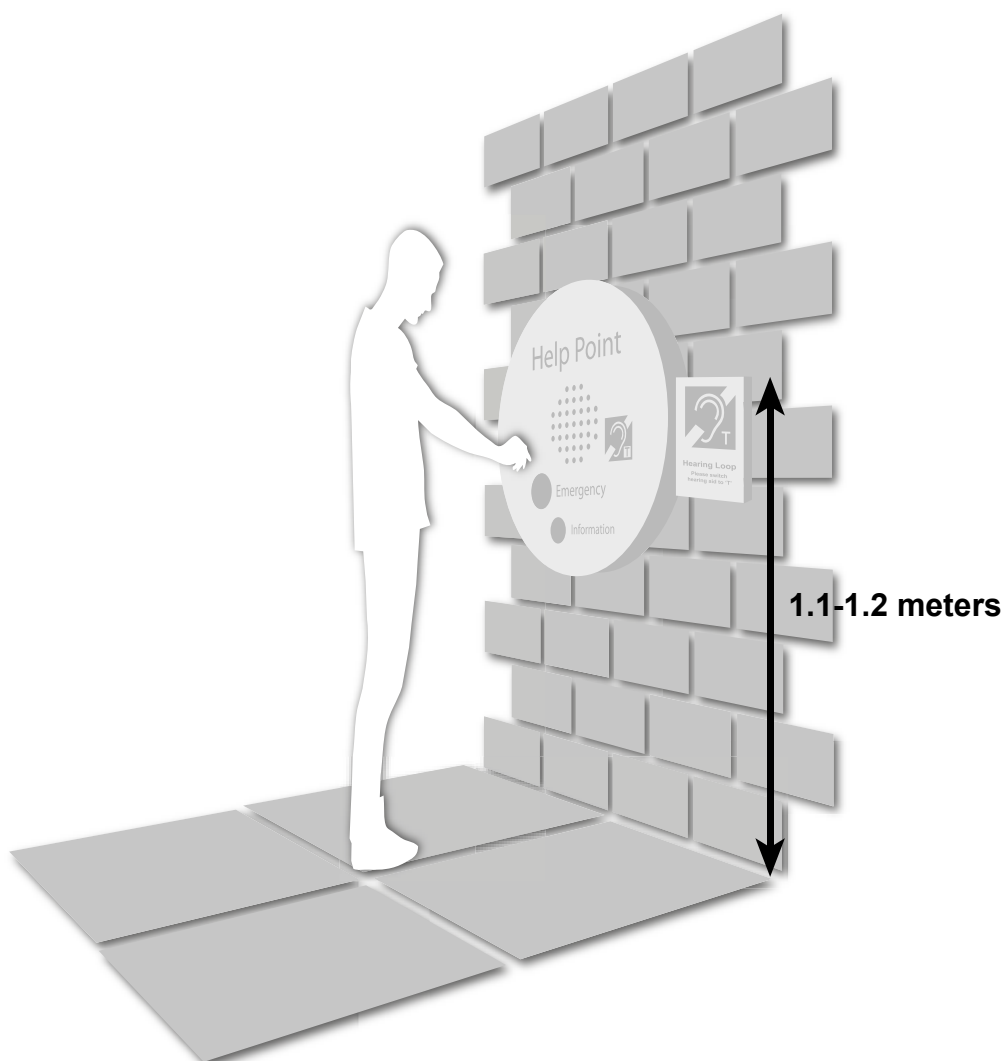


Diagram 1

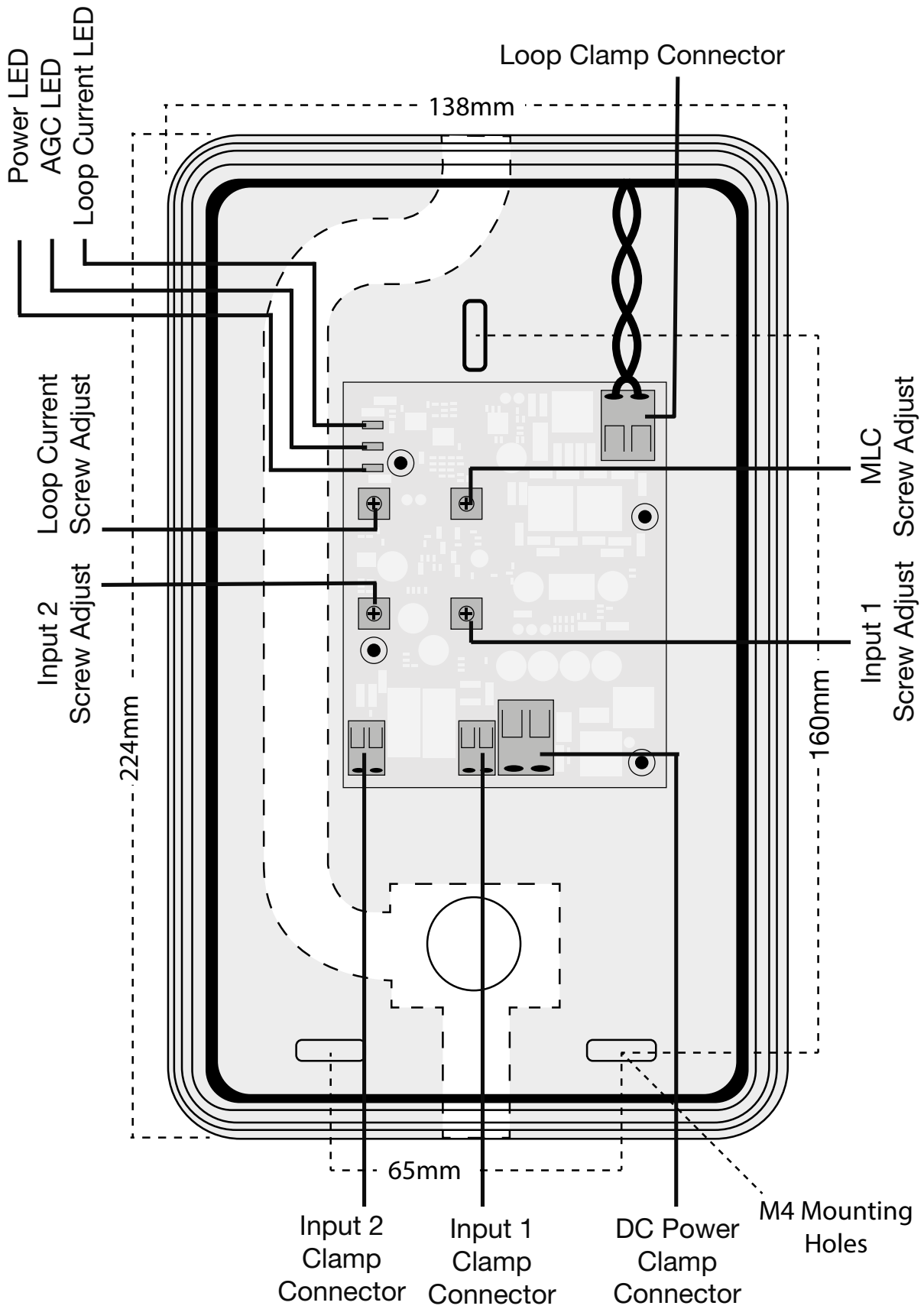
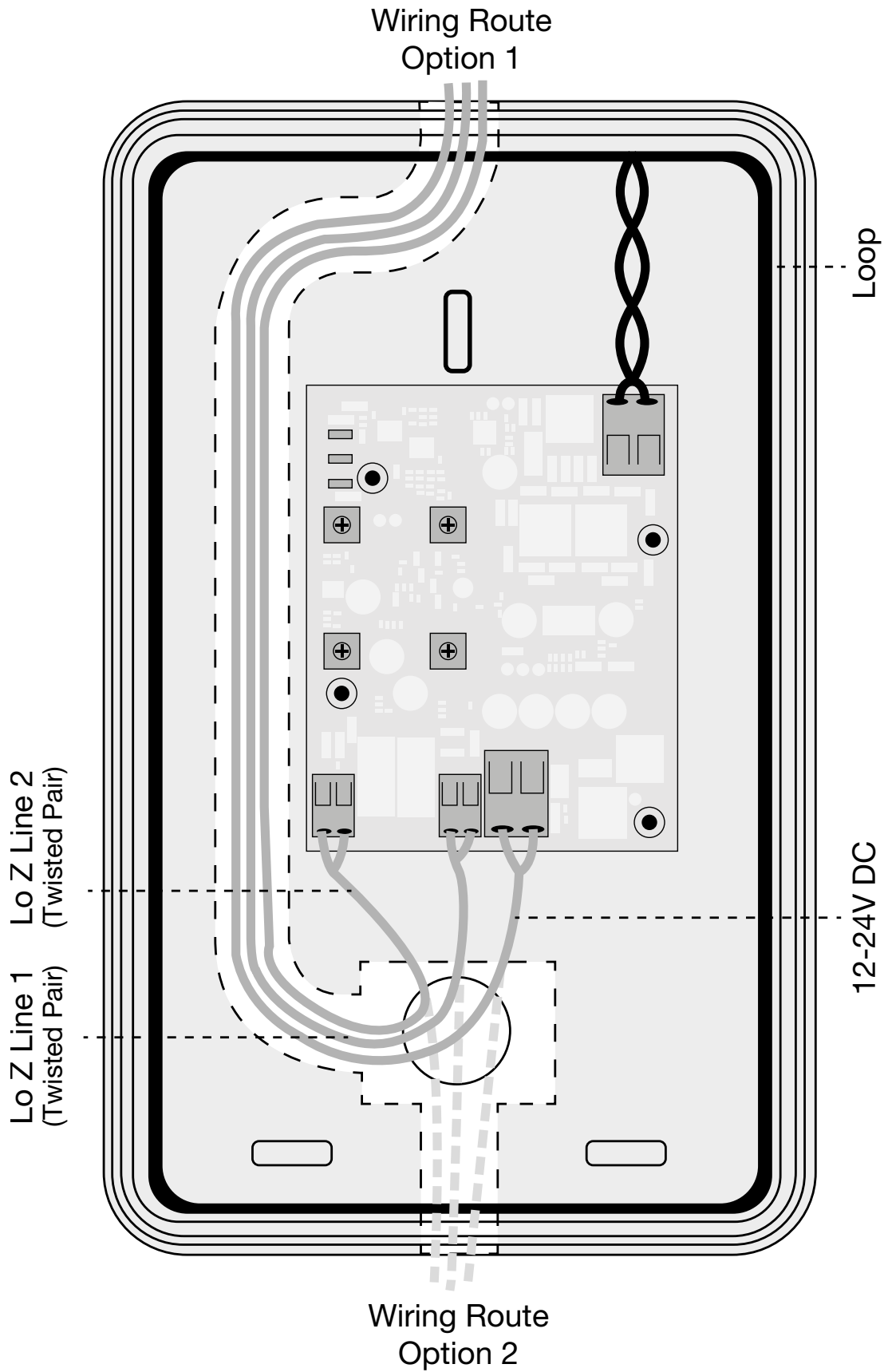


Diagram 2



HLS-2C Active Hearing Loop Panel



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
	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	>3A _{RMS}
	Pink Noise	>1.5A _{RMS}
Frequency response (0.6A _{RMS})	100Hz to 5kHz ± 1.5dB	
Compliance voltage	4.2V _{RMS}	
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.

DECLARATION OF CONFORMITY

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

J.R. Pieters

Managing Director, Ampetronic Ltd.