



**SJC Security**  
**Installations Ltd**



## Hearing Loop Systems

Enhance your customer experience by improving accessibility and transforming the listening experience for those with hearing loss

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# Portable 1.2m2 hearing loop system c/w wall mounting storage shelf

Part No. **PL1/K1**



## Overview

New for 2017 - the PL1/K1 is now supplied with a robust wall-mounting storage shelf.

Ideal for restricted person to person contact in areas such as banks, post offices, small meeting rooms, reception desks, open plan offices and ticket booths.

Portable, lightweight design means the system can be moved easily from location to location.

Simple one button operation.

Integral high performance microphone.

Excellent sound quality.

Five years' expected battery life under normal operating/charging conditions.

Auto shut-off facility (user selectable for 10, 30 or 60 minutes) helps preserve battery life.

Connection of the plug-top charger overrides the timer function to ensure the unit remains operational at all times.

Unit can be used as normal whilst charging.

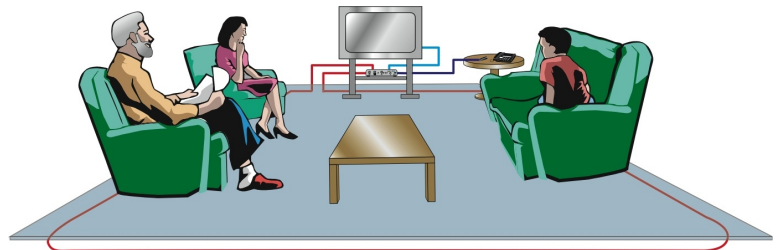
## Technical Specifications

Coverage	1.2m2 approx.
Application/operation	Portable.
Mains supply	Kit includes a 230V a.c. plugtop charger.
Max battery size and type	Amplifier includes an Integral 12V Valve Regulated Sealed Lead Acid battery.
Auxiliary inputs	2 x Mic (one built-in mic and one 3.5mm remote mic socket for AMT or AMD microphones).
Indicators	Power on; input level; charging required; charging in progress; audio-warning of imminent shutdown.
Controls	On/off button; adjust auto-shut off timer (note: the auto-shut-off function only applies when the plugtop charger is not connected to preserve battery life).
Product dimensions (mm)	W 271 x H 200 x D 77mm (amplifier). Shelf measures W 260 x H 263 x D 140mm.
Construction & finish	Black plastic amplifier with blue 'AFILS' available label; black high impact polystyrene shelf.
IP Rating	IP20.
Weight	2.82kg (amplifier); 360g (shelf).
Kit contents	PL1 amplifier; plug-top charger; wall mounting storage shelf.



# 50m2 Domestic Hearing Loop System

Part No. **DL50/K**



## Overview

Free-standing - ideal for bedrooms, living rooms, TV lounges, studies and other domestic applications.

Includes a DL50 amplifier, plug top power supply, loop cable, SCART to double phono lead, AMT microphone and AFILS fitted sticker.

Simple to adjust and tamper-resistant drive, level, tone and microphone priority controls

Input peak, output current, signal present and power on LEDs.

Alert tone input for doorbells, fire alarms, security systems, etc.

Meets and exceeds the requirements of BS7594 and EN60118-4 when correctly installed.

## Technical Specifications

Type	Free-standing. Plugtop mains lead supplied.
Coverage	50m <sup>2</sup> approx. (note that loops over 16m <sup>2</sup> may require two turns of loop cable).
Mains supply	Plugtop mains lead supplied.
Max battery size and type	n/a.
Auxiliary inputs	2 x 3.5mm remote mic. socket; 1 x dual phono (line) socket; Alert input
Indicators	Input level; loop current meter; power on.
Controls	Input level; loop drive, tone, microphone priority
Product dimensions (mm)	W 185 x H 40 x D 85mm (amplifier only);
Construction & finish	Black metal; grey label.
IP Rating	IP20.
Weight	550g
Operating conditions/temperature	-5°C to +40°C. Max relative humidity: 95%.

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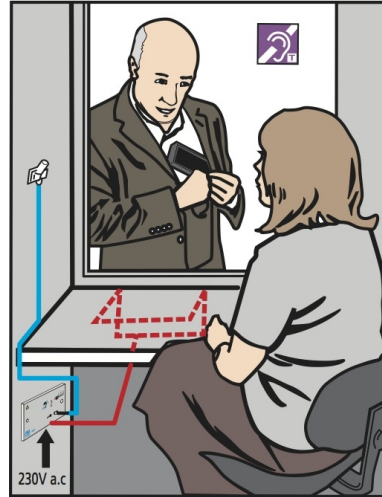
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# 1.2m2 Double Gang Fixed Counter Induction Loop System

Part No. **ML1/K**



## Overview

- Ideal for banks, post offices, small meeting rooms, reception desks, ticket booths and any other application requiring restricted or small area coverage.
- Requires no specialist audio experience or connectors - can be fitted by any competent electrician.
- Space-saving double-gang wall-mounting amplifier fits standard UK 25mm back boxes (requires fixed mains wiring).
- Omni-directional AMT microphone (supplied) plugs directly into the 3.5mm socket on the amplifier's front.
- Line/outreach socket also provided (max 3 outreach plates per system).
- User-adjustable mic. sensitivity and engineer-adjustable loop drive and input level controls.

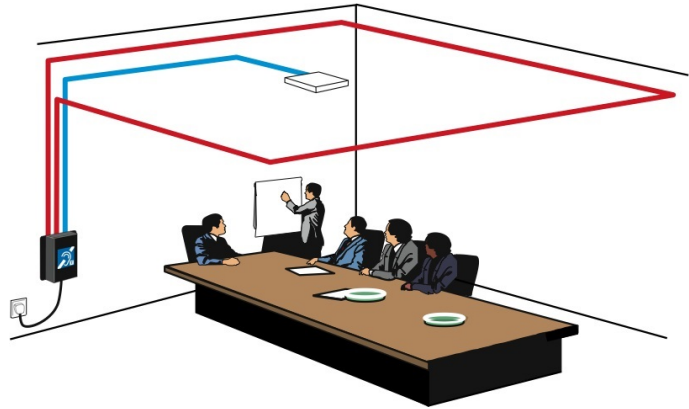
## Technical Specifications

Type	Wall-mounting (requires fixed mains wiring and a 25mm back box).
Coverage	1.2m2 approx.
Mains supply	The general requirement for the 230V a.c. Mains supply to the ML1 is fixed wiring, using 3 core cables of not less than 1mm2 fed from an isolating switched fused spur, fused at 3A.
Max battery size and type	n/a.
Auxiliary inputs	1 x 3.5mm remote mic. socket; 1 x Line/Outreach socket (max. 3 Outreach plates per ML1).
Indicators	Input level; power on; loop drive meter.
Controls	Mic. input level, line input level; loop drive.
Product dimensions (mm)	W 143 x H 83 x D 32mmL.
Construction & finish	Plastic.
IP Rating	IP20.
Weight	300g (amplifier only).



# 50m2 Small Room Hearing Loop System (plated mic version)

Part No. **PDA103R**



## Overview

Everything you need to create a high quality hearing loop system for a room up to 50m2 (7m x 7m).

Ideal for small meeting rooms, council chambers, etc., where equipment needs to be mounted above suspended ceilings, etc.

PDA103 amplifier includes a 3.5mm microphone input, a line level input and an 'outreach' socket for connection of the plated outreach microphone supplied.

Metal compensation control helps improve intelligibility in rooms with high metal content

Adjustable mic, line level and 'outreach' controls.

Drive (level) control allows the amplifier's output stage to be set-up to suit the exact characteristics of the application.

State-of-the-art audio processor features an automatic gain control which compensates for poor microphone techniques and helps suppress loud noises, hisses and clicks.

Limit, Peak, Loop Fault and Power On indicators.

Designed to be wall-mounted using the keyholes provided.

Exceeds the requirements of BS7594 & EN60118-4 when correctly installed.

## Technical Specifications

Type	Wall mountable. Plugtop mains lead supplied.
Coverage	50m2 approx.
Mains supply	Plugtop mains lead supplied. Rated supply voltage: 110 to 240V a.c. @ 50/60Hz; Rated power consumption: 18W PSU.
Max battery size and type	n/a.
Auxiliary inputs	1 x 3.5mm remote mic. socket; 1 x 3.5mm line level socket; 1 x Outreach socket.
Indicators	Limit; Peak; Loop Fault; Power On.
Controls	Mic; Line; Outreach; Metal Compensation (all individually adjustable) and Loop Drive (Level).
Connections	Mic (3.5mm mono jack socket); Line (3.5mm stereo jack socket); Outreach (4-way pluggable screw terminal; DC in; Loop (2-way pluggable screw terminal).
Product dimensions (mm)	W 135 x H 130 x D 35mm (amplifier only); W 340 x H 250 x D 73mm (kit box).
Construction & finish	Black metal.
IP Rating	IP40.
Weight	380g (amplifier only). 1.36kg (kit box and contents).
Operating conditions/temperature	-5°C to +40°C. Max relative humidity: 95%.

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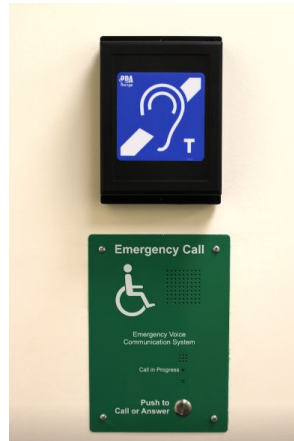
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## 1.2m2 Self-Contained Hearing Loop System for use with disabled refuge, door entry & intercom help points

Part No. **PDA103i**



### Overview

A self-contained hearing loop system specifically designed to integrate with disabled refuge, door entry and intercom help points.

Helps satisfy the integrated loop requirements of the 2018 revision of BS 8300

Housed in an attractive surface-mounting IP65 rated enclosure for use in indoor or outdoor areas.

Supplied with a plugtop power supply (if no plug socket is available, replace with an appropriate 110-240Vac @ 50/60Hz Mains power supply - see instructions for further details).

Adjustable controls allow the amplifier's input and output stages to be set to suit the exact characteristics of the application.

State-of-the-art audio processor helps suppress loud noises, hisses & clicks

Includes internal Limit, Peak, Loop Fault and Power On indicators

Exceeds the requirements of PD IEC TR 63079, BS7594 & EN60118-4 when correctly installed.

### Technical Specifications

Type	Wall mountable.
Coverage	1.2m2 approx.
Mains supply	Plugtop mains lead supplied. Rated supply voltage: 110 to 240Va.c. @ 50/60Hz;
Auxiliary inputs	1 x 3.5mm remote mic. socket; 1 x 3.5mm stereo jack line level socket, 1 x Outreach socket.
Indicators	Limit; Peak; Loop Fault; Power On.
Controls	Mic; Line; Outreach; Metal Compensation (all individually adjustable) and Loop Drive (Level).
Product dimensions (mm)	290mm H x 220mm W x 100mm D.
Construction & finish	Black plastic.
IP Rating	IP65.
Weight	0.8kg.
Operating conditions / temperature	-5°C to +40°C. Max relative humidity: 95%.



# 1.2m2 12V Vehicle Hearing Loop System

Part No. **VL1/B1**



## Overview

Ideal for cars, taxis, buses and other private/commercial vehicles

Kit includes a compact mini-induction loop amplifier with keyholes for dashboard mounting, a cigarette lighter power adaptor, an AMT microphone, a pre-formed loop and an 'AFILS fitted' sticker

Amplifier operates at 12V d.c. (24V vehicle kit also available, order code VL1/B2)

Loop can be positioned in the vehicle's roof lining, under a seat, across the back of a seat or in a door panel to suit the application

Metal compensation control helps combat the frequency response problems caused by metal 'absorbing' the magnetic field

Optional VL9 lead available for connection to the vehicle's audio system

## Technical Specifications

Type	Dash mounting, 12V.
Coverage	1.2m2 approx.
Mains supply	N/A. Power derived from the AL8 fused cigarette lighter power adaptor supplied.
Max battery size and type	n/a.
Auxiliary inputs	1 x 3.5mm remote mic. socket; 1 x line.
Indicators	Input level; loop current meter; power on.
Controls	Mic. level; line level; loop drive, metal compensation.
Product dimensions (mm)	W 120 x H 31 x D 60mm (amplifier only);
Construction & finish	Black metal; blue label.
IP Rating	IP20.
Weight	220g.
Operating conditions/temperature	-5°C to +40°C. Max relative humidity: 95%.
Kit contents	VL1 1.2m2 vehicle induction loop amplifier; TX2 pre-formed counter loop; AMT microphone; AL8 fused cigarette lighter power adaptor; AFILS fitted sticker.





## Dual Speaker Pod System

This entry level speech transfer system provides high quality sound across partitions and safety screens, featuring dual speaker pods which can be either free standing or surface mounted. Our open duplex amplifier and mouse microphone are included.

It is an affordable system suitable for environments with low ambient noise.

### Components

- Speech Transfer Amplifier [STS-A31H]
- 2 x Mouse Microphone [STS-M70-1]
- 2 x Speaker Pod [STS-S70]
- PS-55 Power Supply [PS-55-01]

### Optional Extras

- Hearing Loop Aerial [IL-AE99]
- Supaloop Aerial [IL-AE97-00]
- Larger base available upon request

### Physical Data (boxed)

Dimensions	Height – 310mm (12.2") Width – 310mm (12.2") Depth – 160mm (6.2")
Construction	ABS Plastic
Finish	Black RAL 9005



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## Applications

For use where one to one communication takes place through a safety screen:

- Nursing/Care Homes
- Hospitals/Health Clinics/Surgeries
- Reception Counters
- Banks
- Retail Stores

## Standards

- CE, ROHS and WEEE compliant
- EN 55032:2015 compliant
- EN 55103-2:2009 compliant

## Optional Extras



### Counter Hearing Loop Aerial

This hearing loop aerial for use with our Speech Transfer Systems, which is fixed under desks or counters.



### Supaloop Aerial

The Supaloop Aerial is a hearing loop aerial built inside our blue hearing loop sign.

## Physical and Technical Data (Individual Parts)

Component	Physical Data	Technical Data	
Speech Transfer Amplifier	Dimensions: Height - 116mm (4.57") Width - 115mm (4.53") Depth - 40mm (1.57")  Weight: 100g (0.22lbs)  Construction: ABS Plastic  Finish: Matt Black Fine Texture	Supply Voltage	12-14 VDC
		Quiescent Current	100mA typical
		Operating Current	2A typical on speech peaks
		Power Switch	Push on - push off (tact switch under membrane)
		Microphones	Electret, supply 5V via 2.2K load resistor
		Speaker Output Power	RMS: 2.5W / 8 Ω 4.4W / 4 Ω
		Loop Drive Compliance	Constant current, bounded by 4V RMS & 2A RMS
		Total Harmonic Distortion	<5% (loop and speakers)
PS-55 Power Supply	Dimensions: Height - 93mm (3.66") Width - 49mm (1.93") Depth - 36mm (1.42") Cable length: 1.8m (70.87")  Weight: 180g (0.39lbs)  Construction: ABS Case  Finish: Black	Input	100-240V 50-60Hz 1A max
		Output	14V 2.14A 30W max
Speaker Pod	Dimensions: Diameter – 110mm (4.3") Height – 38mm (1.50")  Construction: ABS Plastic  Finish: Black RAL 9005	RMS	5W
		Impedance	4Ω
		Output	SPL 1W @ 1M 85dB
		Frequency Response	150Hz - 10300Hz
Mouse Microphone	Dimensions: Height – 12mm (0.49") Width – 24mm (0.97") Length – 25mm (0.98") Cable Length – 2m  Weight – 26g (0.57lbs)  Construction: ABS Plastic  Finish: Black Textured Powder Coated	Directional Response	Omni-Directional
		Frequency Response	70Hz - 20kHz
		Sensitivity	-46dBv @ 1kHz
		Distortion	Typically less than 1%



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# 200m2 Professional Meeting/Seminar Room Hearing Loop Kit

Part No. **AKM3**



## Overview

Includes a PDA200E hearing loop amplifier, PRO45 hanging ambient microphone, APXM outreach plate and 6m Belden cable.

Ideal for creating a high quality induction loop system for a professional meeting or seminar room.

Wall-mountable PDA200E amplifier capable of driving a perimeter loop of up to 200m2.

Internal drive, level and metal compensation controls.

Two balanced / unbalanced line level inputs.

One microphone input with 12V phantom power for electret microphones.

Full compatibility with the Outreach plate audio input extension system.

Fully compliant with BS EN 60118-4 when correctly installed.

Loop cable not included—use our LOOP2W1mm2 cable or download our AFILS loop calculator from our Software & Apps page for more precise recommendations.

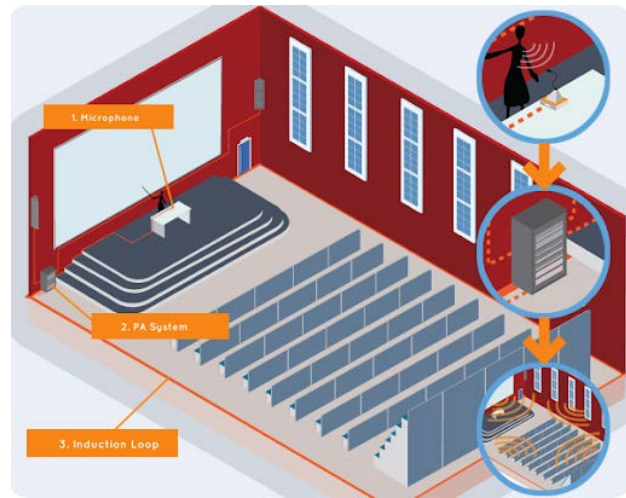
## Technical Specifications

Type	Wall mounting. Requires fixed Mains wiring.
Coverage	200m2 approx.
Mains supply	230V 50/60Hz.
Auxiliary inputs	1 Microphone and 2 x Line/Outreach screw connectors (on PDA200E).
Indicators	Input level; loop current meter (peak 3, 2, 1); compression; power on.
Controls	Input level; loop drive, metal compensation.
Product dimensions (mm)	W 271 x H 200 x D 77mm (amplifier only).
Construction & finish	White painted steel (PDA200E); black plastic (PRO45).
IP Rating	IP20.
Weight	2.9 kg (amplifier only).
Operating conditions/temperature	-5°C to +40°C. Max relative humidity: 95%.
Kit contents	PDA200E 200m2 hearing loop amplifier; PRO45 hanging ambient microphone; APXM XLR mic. level connector plate; 1 x 6m Belden cable; Loop Fitted sticker. Loop cable IS NOT included.



# 500m2 Free Standing Hearing Loop Amplifier

Part No. **PDA7/SD**



## Overview

A new free-standing 7.5A hearing loop amplifier ideal for use in areas up to 500m<sup>2</sup>.

Intuitive LED interface allows simple set-up of input levels, output current, phantom power & metal compensation.

2 x XLR mic/line inputs (selectable) & 1 outreach connector.

Class D output stage for maximum efficiency.

Superior audio processing and powerful CPU provide life-like speech and first class music reproduction.

Fault relay & LED indicators provide clear indication of operation and fault status.

Industry leading dual action automatic gain control compensates for poor microphone technique.

Line level output for recording or daisy-chaining multiple units to cover larger areas.

Complies with EN62368-1 (Safety requirements for audio/video, information and communication technology equipment).

## Technical Specifications

Type	Free-standing. Plugtop IEC mains lead supplied.
Coverage	500m <sup>2</sup> approximately
Mains supply	Plugtop IEC mains lead supplied.
Output	7.5A loop drive current @ 1 Ohm; Loop output voltage 14V.
Max battery size and type	n/a.
Auxiliary inputs	2 x XLR mic/line inputs with switchable 12V phantom power (on or off) & Outreach.
Indicators	LED display with level, peak and limit indicators. Mic, 12V, Line, Metal, Outreach, Lock, Loop, Fault, Hot and Power Indicators.
Controls	Line Input, Microphone, 12V Phantom, Outreach, Metal Comp, Loop Drive.
Connections	Mic (3-pin XLR); Line In (3-pin XLR); Loop (2 way binding post); Outreach (4-way pluggable connector); Line Out (3-way pluggable connector); Fault Relay (3-way pluggable connector).
Product dimensions (mm)	67 (H) x 218 (W) x 280 (D) mm.
Construction & finish	Mild steel zintec, 1mm thick, black powder coated.
IP Rating	IP40.
Weight	2,38kg
Operating conditions/temperature	-5°C to +40°C. Max relative humidity: 95%.

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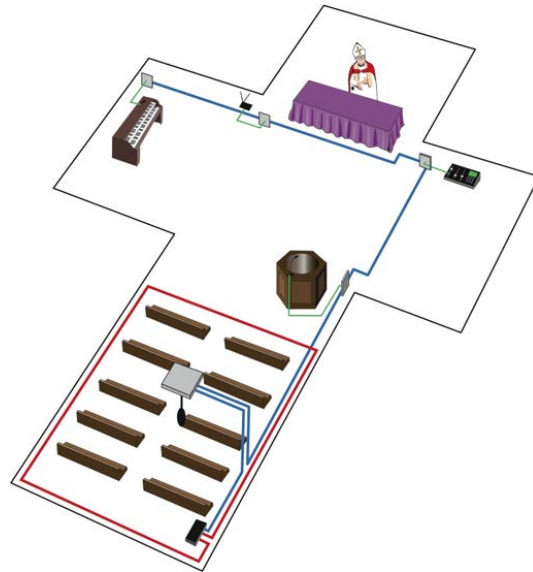
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# 1000m2 Free Standing Hearing Loop Amplifier

Part No. **PDA11/SD**



## Overview

A new free-standing 11A hearing loop amplifier ideal for use in areas up to 1000m<sup>2</sup>.

Intuitive LED interface allows simple set-up of input levels, output current, phantom power & metal compensation.

2 x XLR mic/line inputs (selectable) & 1 outreach connector.

Class D output stage for maximum efficiency.

Superior audio processing and powerful CPU provide life-like speech and first class music reproduction.

Fault relay & LED indicators provide clear indication of operation and fault status.

Industry leading dual action automatic gain control compensates for poor microphone technique.

Line level output for recording or daisy-chaining multiple units to cover larger areas.

Complies with EN62368-1 (Safety requirements for audio/video, information and communication technology equipment).

## Technical Specifications

Type	Free-standing. Plugtop IEC mains lead supplied.
Coverage	1000m <sup>2</sup> approximately
Mains supply	Plugtop IEC mains lead supplied.
Output	11A loop drive current @ 1 Ohm; Loop output voltage 14V.
Max battery size and type	n/a.
Auxiliary inputs	2 x XLR mic/line inputs with switchable 12V phantom power (on or off) & Outreach.
Indicators	LED display with level, peak and limit indicators, Mic, 12V, Line, Metal, Outreach, Lock, Loop, Fault, Hot and Power Indicators.
Controls	Line Input, Microphone, 12V Phantom, Outreach, Metal Comp, Loop Drive.
Connections	Mic (3-pin XLR); Line In (3-pin XLR); Loop (2 way binding post); Outreach (4-way pluggable connector); Line Out (3-way pluggable connector); Fault Relay (3-way pluggable connector).
Product dimensions (mm)	67 (H) x 218 (W) x 280 (D) mm.
Construction & finish	Mild steel zintec, 1mm thick, black powder coated.
IP Rating	IP40.
Weight	2.38kg
Operating conditions/temperature	-5°C to +40°C. Max relative humidity: 95%.