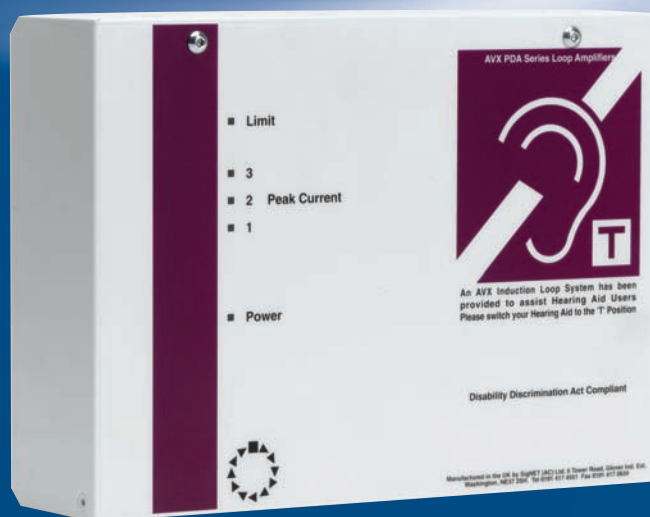


- Ideal for meeting rooms, lecture theatres and other small/medium sized applications
- Wall mountable for permanent installation
- Straight forward internal screw connectors
- One balanced/unbalanced microphone input
- Alert tone switch input for doorbells, fire alarms, security systems, etc
- 100V line input for PA system connection
- Fully automatic compressor-limiter
- Internal tamper-resistant drive, level and tone controls
- Fully compliant with EN60118-4 (formerly BS6083) and BS7594:1993



The PDA200E has revolutionised the induction loop market place by bringing the ability to understand, install and appreciate the technology involved to a whole new client base.

Straightforward internal screw connectors and preset controls mean no specialist audio experience or audio connectors are required. By following the simple set-up procedure, no further adjustments are necessary, allowing a top quality assistive listening system for the hard of hearing to be set up in its entirety by new and experienced installers alike.

No less than four easy-to-access inputs are provided:-

- Balanced/unbalanced mic (with phantom power for use with electret mics).
- Balanced/unbalanced line (for the connection of TV and other audio feeds).
- Alert tone switch (a tone generator for use with doorbells, fire alarms, etc).
- 100V line (for the connection of PA system audio feeds).

The amplifier's state-of-the-art current drive audio processing circuitry includes an automatic compressor/limiter, which maintains the loop signal within a small dynamic range to improve intelligibility. Manual adjustments can also be made using the amplifier's internal tamper-resistant drive, level and tone controls, allowing the system to be tailored to suit the exact requirements of any room.

#### More Key Features:

- Provides max. square room coverage of 120m (11m x 11m) or max. rectangular room coverage of 250m (10m x 25m)
- Internal tamper-resistant drive, level and tone controls
- Fully automatic compressor-limiter
- Full 2 $\Omega$  drive capability for increased coverage at higher frequencies
- Compatible with the unique 'outreach plate' input extension system
- Available in a variety of kit formats to suit a host of typical loop installations

# Technical Specification

## Power Requirements

Mains voltage	230V ac
Power Consumption	<80VA
Fuses	Internal mains input fuse 1A 20mm (HRC)

The PDA200E requires fixed mains wiring fed from a 3A fuse spur located no more than 3m from the amplifier

## Inputs

Three 5mm screw connector inputs are available - mic., line & 100V.  
If more than one is used, the signals are mixed

## Microphone

Input impedance	600Ω balanced/unbalanced
Sensitivity	2-5mV (-46db to - 50db)
Phantom	12V

## Line

Input impedance	> 10Ω balanced/unbalanced
Sensitivity	0dbv (300mV rms to 1.5 rms)

## 100V Line

Input impedance	200kΩ
Sensitivity	+40dbv

## Alert

Should additional inputs be required, the PDA200E is compatible with outreach plate input extension system.  
This allows up to ten extra mic or line inputs to be daisy-chained to the PDA200E.

## Output

Type	Current mode
Loop connector	Screw connector
Cable	1.0-2.5m

Loop coverage (square rooms)	120m max. (e.g 11m x 11m)
Loop coverage (rectangular room)	Up to 250m when shortest side of loop is no greater than 10m (e.g. 10m x 25m)
Loop drive current	4A peak; 1.8A average
Loop impedance	0.2 to 2Ω

## Performance

Bandwidth	40Hz to 8kHz
Input dynamic range	36dB
Distortion	<0.5% THD

The PDA200E includes an amplitude compression stage that limits overload and has a dynamically variable ratio from 1:1 to 10:1

## Indicators & Controls

**LED indicators** - Input peak (limit); output drive (1, 2, 3 peak current); power on (power)

## User controls

One level control, adjustable between -35dB to +0dB for both line and microphone. One level output drive control, giving a loop current adjustable between 40mA & 2.1A. One mid-range cut & boost tone control (frequency = 1KHz; cut= -17dB; boost = +17dB)

## Dimensions & Weight

W x H x D / Weight: 273mm x 200mm x 77mm / 2.9kg (unpacked)

**Stock Code** SP8935



Company Policy is one of continuous improvement, we reserve the right to change specification without prior notice

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