

• **PDA200E: Wall-mounting Induction Loop Amplifier (120m² coverage)**

The PDA200E has revolutionised the induction loop marketplace 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.

Features:

- Ideal for meeting rooms, lecture theatres, churches, schools, TV lounges, shops and other small to medium sized applications
- Provides max. square room coverage of 120m² (11 x 11 m) or max. rectangular room coverage of 250m² (10 x 25 m)
- Straightforward internal screw connectors
- Wall mountable for permanent installation – ideal for schools and colleges where rooms are often left unsupervised
- Internal tamper-resistant drive, level and tone controls
- One balanced/unbalanced microphone input
- One balanced/unbalanced line level input
- Alert tone switch input for doorbells, fire alarms, security systems, etc
- 100v line input for PA system connection
- Fully automatic compressor-limiter
- Full 2Ω drive capability for increased coverage at higher frequencies
- Compatible with SigNET's unique 'outreach plate' input extension system
- Available in a variety of kit formats to suit a host of typical loop installations
- Fully compliant with EN60118-4 (formerly BS6083) and BS7594:1993



Inputs:

Model:	PDA200E
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	>10kΩ balanced/unbalanced
Sensitivity	0dBv (300mv rms to 1.5v rms)
100V LINE	
Input impedance	200kΩ
Sensitivity	+40dBv
ALERT	Closing a volt-free switch across this input generates a 2kHz tone through the loop.

Outputs:

Model:	PDA200E
Type	Current mode
Loop connector	Screw connector
Cable	1.0-2.5m ²
Loop coverage (square room)	120m ² max. (e.g. 11 x 11 m)
Loop coverage (rectangular room)	Up to 250m ² when shortest side of loop is no greater than 10m (e.g. 10 x 25 m)
Loop drive current	4A peak; 1.8A average
Loop impedance	0.2 – 2Ω @ 1kHz

Specifications:

Model:	PDA200E
Mains voltage	230v AC
Power consumption	<80vA
Fuses	Internal mains input fuse 1A 20 mm (HRC)
Bandwidth	40Hz ~ 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 to10:1

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

