

PHASED ARRAY HEARING LOOP AMPLIFIERS



- ▶ Intuitive LED interface allows simple set-up of input levels, output current, phantom power and metal compensation
- ▶ 200m², 500m² or 1000m² coverage (model dependent)
- ▶ 2 x XLR mic/line inputs (selectable)
- ▶ Outreach connector allows up to 10 of our revolutionary audio input utility plates to be added
- ▶ Dedicated wall-mount and free-standing options
- ▶ Anti-tamper lock function prevents unauthorised adjustment of system settings
- ▶ 5 year warranty as standard
- ▶ Class D output stage for maximum efficiency and very high output
- ▶ Superior analogue audio processing with a powerful CPU and cutting-edge technology provide life-like speech and first class music reproduction
- ▶ Short circuit protection against loop faults for increased reliability
- ▶ Fault relay & LED display 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.
- ▶ Designed and manufactured in the UK.

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

P85/D RANGE PHASE-SHIFTING HEARING LOOP AMPLIFIERS

PDA5/DD	200m ² Free-Standing, Phase-Shifting Hearing Loop Amplifier - 2 x 3.25 Amp
PDA5/DW	200m ² Wall-Mount, Phase-Shifting Hearing Loop Amplifier - 2 x 3.25 Amp
PDA7/DD	500m ² Free-Standing, Phase-Shifting Hearing Loop Amplifier - 2 x 5 Amp
PDA7/DW	500m ² Wall-Mount, Phase-Shifting Hearing Loop Amplifier - 2 x 5 Amp
PDA11/DD	1000m ² Free-Standing, Phase-Shifting Hearing Loop Amplifier - 2 x 7.5 Amp
PDA11/DW	1000m ² Wall-Mount, Phase-Shifting Hearing Loop Amplifier - 2 x 7.5 Amp

Technical Specification

POWER	
Supply Voltage:	230V 50Hz (Free-standing model is supplied with IEC 320 fused mains lead; Wall-mount model is permanently connected to mains)
Power Consumption:	100W / 200W / 400W (model dependent)
INPUTS	
Line In:	Input impedance: 1k + or – input to ground. Sensitivity: -20dBu typical.
Microphone:	Input impedance: 1k + or – input to ground. Sensitivity: -42dBu typical. Phantom power for electret microphones: 12V selectable (on/off).
Outreach:	Input impedance: >10k. Sensitivity: 0dBu typical. Outreach power: 24V d.c. nom. available via outreach connector (100mA max.)
OUTPUTS	
Loop 1 & Loop 2	Type: True current mode. Loop output voltage: 14V. Dual Loop drive current @ 1 ohm: 2 x 3.25A (PDA5/DD, PDA5/DW); 2 x 5A (PDA7/DD, PDA7/DW); 2 x 7.5A (PDA11/DD, PDA11/DW).
Line Out:	775mV output
Fault Relay:	Single pole double throw (SPDT): NC, Common, NO.
Phase Shift	2 x 900 phase shifted. Selectable (on/off).
Metal Compensation:	Up to 10dB / octave design counteracts frequency dependent absorption by metal in the installation over a bandwidth of approximately 5kHz.
COVERAGE	
Maximum Coverage Area:	200m ² , i.e. rooms up to approx. 14m x 14m (PDA5/DD, PDA5/DW), 500m ² , i.e. rooms up to approx. 22m x 22m (PDA7/DD, PDA7/DW), 1000m ² , i.e. rooms up to approx. 31m x 31m (PDA11/DD, PDA11/DW). Loop impedance: 0.5 to 2 ohm.
PERFORMANCE	
Frequency Response (-3dB):	100Hz to 5kHz; Distortion: Less than 1 % typical; Signal to Noise Ratio: Better than -65dB any input; AGC Range (3dB change in output voltage current): 10dB. AGC ratio: 20:1.
SUPPLEMENTARY	
Sensitivity Level Controls	Line In, Mic, 12V Phantom, Outreach, Optical, Metal Comp, Drive1&2, Loop, Phase Shift.
Display & Controls:	LED display.
Connectors:	<ul style="list-style-type: none"> • Microphone (3-pin XLR on free-standing model; 3-way pluggable on wall-mount). • Line In (3-pin XLR on free-standing model; 3-way pluggable on wall-mount). • Loop (4 way binding post on free-standing model; 4-way connector on wall-mount) • Outreach (4-way pluggable connector). • Line Out (3-way pluggable connector). • Fault Relay (3-way pluggable connector). • 230Va.c. connector (Mains lead for free-standing model; Fixed mains for wall-mount).
Dimensions and weight:	Free-standing: 67H x 218W x 280D mm. Wall-mount: 298H x 308W x 74D mm Weight: Free-standing: 2.38kg; Wall-mount: 3.35kg
Misc:	Panel Construction: Mild steel zintec, 1mm thick, black powder coated; IP Rating: IP40; Operating Temp: 0oC to 40oC; Maximum Humidity: 95% non-condensing