

PROFESSIONAL HEARING LOOP AMPLIFIERS



- ▶ Intuitive S.O.D. 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
- ▶ Class D output stage for maximum efficiency and very high output
- ▶ Short circuit protection against loop faults for increased reliability
- ▶ Superior analogue audio processing with a powerful CPU and cutting-edge technology provide life-like speech and first class music reproduction
- ▶ Fault relay & S.O.D. display provide clear indication of operation and fault status
- ▶ Industry leading dual action automatic gain control compensates for poor microphone technique
- ▶ Complies with EN62368-1 (Safety requirements for audio/video, information and communication technology equipment)
- ▶ Line level output for recording or daisy-chaining multiple units to cover larger areas
- ▶ 5 year warranty as standard
- ▶ Designed and manufactured in the UK
- ▶ *Dual 'phased array' P.O.C.E.D. versions also available - call for details*

D85/S RANGE HEARING LOOP AMPLIFIERS

P.O.C.5/SD	200m ² Free-Standing Hearing Loop Amplifier, 4.75 Amp
P.O.C.5/SW	200m ² Wall-Mount Hearing Loop Amplifier, 4.75 Amp
P.O.C.7/SD	500m ² Free-Standing Hearing Loop Amplifier, 7.5 Amp
P.O.C.7/SW	500m ² Wall-Mount Hearing Loop Amplifier, 7.5 Amp
P.O.C.11/SD	1000m ² Free-Standing Hearing Loop Amplifier, 11 Amp
P.O.C.11/SW	1000m ² Wall-Mount, Hearing Loop Amplifier, 11 Amp

POWER	
Supply Voltage:	230V 50Hz (Free-standing model is supplied with IEC 320 fused mains lead; Wall-mount model requires a permanent connection to mains via a 5A fused spur)
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	Type: True current mode. Loop output voltage: 14V. Loop drive current @ 1 ohm: 4.75A (PDA5/SD, PDA5/SW); 7.5A (PDA7/SD, PDA7/SW); 11A (PDA11/SD, PDA1/SW).
Line Out:	775mV output
Fault Relay:	Single pole double throw (SPDT): NC, Common, NO.
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 upto 14m x 14m (PDA5/SD, PDA5/SW). 500m ² , i.e. rooms upto 22m x 22m (PDA7/SD, PDA7/SW). 1000m ² , i.e. rooms up to approx. 31m x 31m (PDA11/SD, PDA11/SW). Rooms over 5m wide with reinforced concrete floors or suspended ceilings may require a phased array solution as provided by our PDA/D range amplifiers, see our separate datasheet for details.
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. Loop impedance: 0.5 to 2 ohm.	
SUPPLEMENTARY	
Sensitivity Level Controls	Line In, Mic, 12V Phantom, Outreach, Metal Comp, Loop Drive.
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 (2 way binding post on free-standing model; 2-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

