



VA80

audio frequency
induction loop systems

Room Loop

VA80 Room Loop

Fully compliant with EN60118-4

The VA80 is a mains powered induction loop amplifier designed for use in conference/meeting rooms, schools, offices, TV lounges etc.

Having two audio inputs it can be configured to suit most needs. Both inputs can be either balanced or unbalanced as required, and are independently configurable as microphone or line level. Phantom power capable of supplying the most demanding balanced microphones is also available. Each input has its own level control thus allowing accurate adjustment of the system balance for optimum user satisfaction. Both inputs can be used simultaneously and are individually processed prior to mixing and final amplification. Audio connections are via easy to use terminal blocks accessible through grommets in the housing. All controls are internal, thus eliminating the potential for any unauthorised adjustment of the system once installed.

Power-On and Loop-Active indication is provided by a series of LEDs in the front panel.

The VA80 is fully protected against over-temperature and over-current faults, and once installed and correctly adjusted, requires no further user intervention.

Area coverage:	Square	80m ² (9.0m x 9.0m)
	Rectangular	145m ² (17.0m x 8.5m)
Audio inputs:	2 inputs, MIC / Line selectable	
	Both inputs can be balanced or unbalanced	
Phantom power:	9V suitable for high quality balanced microphones	
Frequency response:	Flat frequency response <50Hz to >6.5kHz	
	(exceeds the requirements of EN60118-4 and BS 7594: 1993)	
Supply voltage:	220 / 230 / 240Vac 50Hz	
Connector type:	Internal fused terminal block	
Connections:	Live, neutral and earth, via a 3A fused spur	
Internal fuse:	1A anti-surge 20mm T1A (within mains connector)	
Input power:	< 50VA	

VA80 Specifications

Audio Input 1 (MIC or Line level)

Input type:	Balanced or unbalanced
Configuration:	Fit LK5 to (L) for Line level or (M) for MIC level as required
Connector type:	Internal terminal block TB1
Phantom power:	9V @ 3mA
MIC sensitivity:	-61dBu
Line sensitivity:	-30dBu
Level adjustment:	Internal Via RV1

Audio Input 2 (MIC or Line level)

Input type:	Balanced or unbalanced
Configuration:	Fit LK6 to (L) for LINE level or (M) for MIC level as required
Connector type:	Internal terminal block TB2
Phantom power:	9V @ 3mA
MIC sensitivity:	-61dBu
Line sensitivity:	-30dBu
Level adjustment:	Internal Via RV2

Loop Output

Output type:	Current driven
Connector type:	Internal terminal block TB5
Loop resistance:	0.1Ω to 1.0Ω
Loop drive current:	1.2A _{RMS} average, 4.0A _{RMS} peak (125ms)
Loop drive voltage:	6.0V _{RMS} maximum in to 1.5Ω
Loop area coverage:	Square 80m ² (1:1 aspect ratio), Rectangular 145m ² (2:1 aspect ratio)
Loop cable:	0.75mm ² to 1.5mm ² tri-rated
Frequency response:	<50Hz to > 6.5kHz (Flat within 3dB over the range)
Protection:	Over-current, over-temperature
PCB mounted fuses:	F1 and F2, 2A time-lag 20mm
Indicators:	Power-On via blue LED. Loop current via 4 LED bargraph

General Information

Dimensions:	230mm x 161mm x 70mm
Mounting:	Wall mounted by 4 screws
Weight:	2.3kg
Environmental:	For indoor use only – keep unit dry
Operating temp:	0°C to +35°C (Unit will function up to +50°C with de-rated output capability)
Storage temp:	-20°C to + 70°C

Vivid Acoustic Systems Limited

Unit 4, DTS Building, Nelson Way
Cramlington
Northumberland NE23 1WG
Tel: 01670 710740 Fax: 01670 710750
enquiries@vivid-acoustics.com



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