



VA135

audio frequency
induction loop systems

Room Loop

VA135 Room Loop

Fully compliant with EN60118-4

The VA135 is a mains powered induction loop amplifier designed for use in conference/meeting rooms, schools, offices, lecture theatres, churches, TV lounges etc.

Having multiple audio inputs it can be configured to suit most needs. All inputs can be either balanced or unbalanced as required. Two inputs are independently configurable as microphone or line level; the third is configurable as line level or 100V line level, suitable for connection to a PA system.

The microphone inputs have switchable phantom power capable of supplying the most demanding balanced microphones. Each input has its own level control thus allowing accurate adjustment of the system balance for optimum user satisfaction. All three inputs can be used simultaneously and are individually processed prior to mixing and final amplification. All audio inputs 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.

An alarm input is also provided to allow connection to external alert systems such as fire alarms or doorbells. Power-On and Loop-Active indication is provided by a series of LEDs in the front panel.

The VA135 is fully protected against over-temperature and over-current faults, and once installed and correctly adjusted, requires no further user intervention.

Area coverage:	Square	135m ² (11.6m x 11.6m)
	Rectangular	270m ² (23.2m x 11.6m)
Audio inputs:	2 mic / line, 1 line / 100V line for connection to a PA system All inputs can be balanced or unbalanced	
Phantom power:	5V for electret condenser microphones or 15V suitable for high quality balanced microphones (guaranteed > 10V @ 3mA)	
Frequency response:	Flat frequency response <50Hz to >7kHz (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:	< 100VA	

VA135 Specifications

Audio Inputs	Input1 (mic level or line level)	Input 2 (mic level or line level)
Input type:	Balanced or unbalanced	Balanced or unbalanced
Configuration:	Fit LK5 to MIC or LINE as required	Fit LK6 to MIC or LINE as required
Connector type:	Internal terminal block TB1	Internal terminal block TB2
Phantom power:	5V @ < 1mA or 15V nominal > 10V @ 3mA	5V @ < 1mA or 15V nominal > 10V @ 3mA
MIC sensitivity:	0.7mV _{RMS} to 10mV _{RMS}	0.7mV _{RMS} to 10mV _{RMS}
Line sensitivity:	250mV _{RMS} to 1V _{RMS}	250mV _{RMS} to 1V _{RMS}
Level adjustment:	Via RV1	Via RV2

Audio Input 3	Line-level or 100V line-level
Input type:	Balanced or unbalanced
Configuration:	Fit LK3 AND LK4 for line-level, remove for 100V line-level
Connector type:	Internal terminal block TB3
Line sensitivity:	250mV _{RMS} to 1V _{RMS}
100V line sensitivity:	40V _{RMS} to 110V _{RMS}
Level adjustment:	Via RV3

Alarm Input	
Input type:	Switch only
Connector type:	Internal terminal block TB4
Connections:	Closing a switch across this connector enables the 1kHz alarm tone in the output
Switch requirement:	15V @ < 10mA
Level adjustment:	Via RV4
To test / level adjust:	Fit LK7 to test

Loop Output	
Output type:	Current driven
Connector type:	Internal terminal block TB5
Loop resistance:	0.5Ω to 2.0Ω
Loop drive current:	1.9A _{RMS} average, 4.9A _{RMS} peak (125ms)
Loop area coverage:	Square 135m ² (1:1 aspect ratio), Rectangular 270m ² (2:1 aspect ratio)
Loop cable:	0.75mm ² to 1.5mm ² tri-rated
Frequency response:	<50Hz to > 7kHz
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:	272mm x 200mm x 76mm
Mounting:	Wall mounted by 4 screws
Weight:	<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

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