

contacta^{inc.} V15a

Hearing Loop Driver



CONTACTA LARGE AREA LOOP SYSTEMS

The V15a is a highly efficient and compact dual output hearing loop driver. It's a constant current perimeter hearing loop driver, suitable for medium sized venues.

The driver has a Class-D output stage and an audio subsystem built around an advanced Digital Signal Processing (DSP) core. Combined with a powerful CPU to ensure peak performance, the V15a uses cutting edge technology to achieve first-class speech and music reproduction.

Features

- › DSP Controlled Automatic Gain Control (AGC) and High Frequency Compensation for metal loss.
- › Integrated protection circuits with temperature, voltage, short circuit and DC detection
- › Class-D amplifier with two output stages, each capable of delivering 5A_{RMS} @ 15V_{RMS}
- › Energy efficient design
- › Sleep mode
- › True constant current output stage
- › Continuous self-testing
- › Simple user interface



Applications

- › Meeting & Conference Rooms
- › Lecture Halls & Classrooms
- › Reception & Waiting Areas
- › Places of Worship
- › Retirement Homes
- › Government Facilities

Voltage and Current

- › 2 X 15V RMS @ 5A RMS

Accessories

- › Rackmount Shelf/Ears/Wall Mount
- › Flat Copper Wire
- › RX20 Loop Listener
- › Field Strength Meter (FSM)

contacta 

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Driver Area Coverage

Driver Area Coverage	Area		
	1:1	1:2	1:3
Phased array (no metal lost)	6727 ft ²	7368 ft ²	7592 ft ²
Phased array (medium metal loss)	3110 ft ²	3100 ft ²	4395 ft ²

All phased array loop areas calculated under the following conditions: Area at maximum driver current without voltage clipping at 1.6Hz * 9.84 ft segment width * calculated with 2.5cm x 0.01cm flat copper tape * loop cable installed on floor * listening plane 3.94ft * medium metal loss = 6dB

Physical Data

Dimensions	Height - 1.65" Width - 7.80" Depth - 5.90" including control dial
Weight	2.15 lbs
Construction	Mild Steel
Finish	Black Powder Coated

Standards

- › BS EN 55103-1: 2009 (EMC emissions)
- › BS EN 55103-2: 2009 (EMC immunity)
- › FCC class "B" (EMC emissions)
- › ICES-003
- › UL Canada and US Power Supply using less than 100 watts

Technical Data

Power	100W 24Vdc 4.17A External PSU (PS-60) Class 6 External PSU (100V - 240V AC 50Hz - 60Hz)	
Inputs	1 X Line XLR or 3.81mm Euro-block [optimized for levels above -10dBV to 0dBV]	
	1 X Mic Level (12V phantom power via 680 Ohms [optimized for levels above -45dBV])	
	1 X DC Input	
Outputs	2 X Loop Output (5.08mm Euro Block)	
Loop Output Characteristics	Output Voltage	15Vrms (42.3Vpk-pk) @ 5A _{RMS} (14.14Vpk-pk)*
	Output Current	5Arms (14.14Vpk-pk) up to 300 seconds*
	Loop Connector	5.08mm Euro-block
Audio System	Frequency Response	80Hz to 6.5kHz
	Distortion	THD+N <0.3% (-50.5dB) Full current both outputs driven
	AGC	Peak detecting
	HF Comp	7 optimized stages
Display & Control	Display	LED Backlit LCD display
	Control	Single rotary control
Fault Monitoring and Protection	Main Display	Open circuit loop (DCR Measurement), Loop Ground Fault
	Front Panel LED	Output voltage clipping
	Cooling	Internal heatsinks with thermal protection

* Note 1: Z=30ohms (265.4uH + 1.37 Ohms @ 1.6kHz) Note 2: <1% (-40dB distortion)