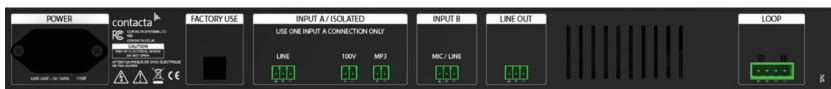


contacta V22+

Hearing Loop Driver



CONTACTA LARGE AREA LOOP SYSTEMS

The V22+ is a powerful constant current, single output hearing loop driver which contains a high power Class D output stage. It is suitable for hearing loop systems in medium to large venues for perimeter and figure-eight loop layouts.

The audio subsystem is built around an advanced DSP Core with microprocessor control. This modern driver delivers an optimal combination of efficient performance and power. It provides a high-spec and feature-rich interface which is easily controlled from the LCD display.

The built-in Line Output allows the driver to be daisy chained to additional V22+ for larger installations. Note: The Line Output cannot be used to create a phased array configuration.

Features

- › DSP controlled automatic gain control and high frequency compensation for metal loss
- › Class-D amplifier output stage capable of delivering 12 A_{RMS} @ >22V_{RMS}
- › Ultra-efficient power utilization (up to 90% efficient)
- › Switchable AGC (ON/OFF)
- › High Pass Filter for removal of low frequency noise
- › Simple user interface
- › Backlit LCD display
- › Acoustic time delay
- › Continuous self-testing
- › Integrated protection circuits with temperature, voltage, short circuit and DC detection



Applications

Suitable for medium-sized facilities and venues such as:

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

Voltage and Current

- › >22 VRMS @ 12A RMS

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Driver Area Coverage

Area		
1:1	1:2	1:3
7,692 ft ²	9,672 ft ²	10,338 ft ²

All perimeter loop areas calculated under the following conditions: Area at maximum driver current without voltage clipping at 1.6Hz * Loop designed to achieve 0dB in center of the area * calculated with 2.5cm x .01cm flat copper wire * loop cable installed on floor * listening plane 3.94ft

Physical Data

Dimensions	Height – 1.74" Width – 17.04" Depth – 6.51"
Weight	7.05lbs
Construction	Mild Steel
Finish	Black Powder Coated

Standards

- › 2014/30/EU
- › 2014/35/EU
- › 2012/19/EU
- › 2015/863/EU
- › FCC Part 15B Class B
- › ICES-003

Technical Data

Inputs	Input A / Isolated	Line: 0.35cm Euro-block (optimized for -10dBV to 0dBv)
		100V: 100V Line Input (Transformer isolated) .35cm Euroblock
		MP3: .35cm Euroblock (Transformer isolated, optimized for -10dBc to 0dBv)
	Input B	Universal: Input B Line/Mic. (12V phantom power via 680Ω) (optimized for levels > -45dBv to -10dBv) 0.35cm Euroblock
Loop Output	Outputs Voltage	1 x 22Vrms (62.04Vpk-pk) @ 12Arms (33.84Apk-pk)*
	Output Current	1 x 12Arms (33.84Apk-pk) up to 300 seconds
	Loop Connector	1 x 4 Way 0.2in Euro-Block
Line Output	1 x 3.5mm Euroblock	
Audio System	Frequency Response	80Hz to 6.5kHz
	Distortion	THD+N<1% (-40dB)
	Automatic Gain Control	Switchable (Peak Detecting) on or off
	High Frequency Compensation	7 DSP controlled, optimized stages
	Acoustic Time Delay	10ms to 70ms adjustable in 1ms steps
Display	LED Backlit LCD display with backlight time-out	
Control	Single Rotary Push Control	
Power (IEC Connection)	Voltage	100V-120V/200V-240V AC (universal auto switching)
	Frequency	50Hz-60Hz
	Power	175W
Front Panel LED	Output voltage clipping	
Fault Monitoring and Protection	Temperature, fan speed, PSU fault, loop open, loop impedance error	

*Note 2: Z=1.83Ω (162uH +0.838Ω @ 1.6kHz), Note 2: <1% (-40dB) distortion

Affiliations:

