

# contacta<sup>h</sup> V34a PRO

## Hearing Loop Driver



### CONTACTA LARGE AREA LOOP SYSTEMS

The V34a PRO is a highly efficient and powerful constant current hearing loop driver with dual output for phased array loops. It is designed for large facilities and venues.

It has a Class D amplifier output stage and an audio subsystem built around advanced digital systems including an ARM Cortex processor and dual DSP's. Combined with a powerful CPU the ensure peak performance, the V34a PRO provides self-monitoring and email alerts, remote setup over local area networks, guided hearing loop setup to make installation simple, and excellent speech and music reproduction.

#### Features

- › Inbuilt guided hearing loop setup utilizing an integral Test Signal Generator (TSG)
- › Intelligent self-monitoring system supplies status emails on changes to driver functions
- › Dual DSP controlled AGC and HF Compensation for metal loss
- › Class D amplifier with two output stages, each capable of delivering 12ARMS @ >34VRMS
- › Highly rated custom heat sinks and active cooling
- › Integrated universal switch mode power supplies provide ultra efficient power utilization (up to 90% efficient)
- › Ability to adjust both drive and loop output levels using an embedded LAN service, minimizing installation time
- › Settings/profiles saved to the cloud or USB storage device



#### Applications

- › Performing Arts Centers
- › Airports
- › Cinemas and Theatres
- › Places of Worship
- › Auditoriums
- › Sports Arenas

#### Voltage and Current

- › 2 X 34V RMS @ 12A RMS

#### Accessories

- › RX-20 Loop Listener
- › Field Strength Meter (FSM)
- › Flat Copper Wire
- › Concrete Burial Cable

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Driver Area Coverage	Area		
	1:1	1:2	1:3
Phased array (no metal lost)	16,372 ft <sup>2</sup>	18,734 ft <sup>2</sup>	18,087 ft <sup>2</sup>
Phased array (medium metal)	7,276 ft <sup>2</sup>	9,047 ft <sup>2</sup>	ft <sup>2</sup>

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 – 1.73" Width – 17.04" Depth – 11.85"
Construction	Mild Steel
Finish	Black Powder Coated

## Standards

- › EN 62368-1
- › UL 62368-1
- › EN 55032 EMC
- › EN 55035 EMC

## Technical Data

Audio Inputs	2 X line/microphone inputs (switchable) XLR or Euroblock	Line (optimized for -10dBV to 0dBV)
		Microphone (12V phantom power via 680 Ω optimized for levels above -45dBV)
Loop Output	Loop Connection	2 X NL4
	Loop Drive Current	2 X 12ARMS @1KHz* (33.94A) pk-pk >1200 seconds (20 minutes)
	Loop Drive Voltage	2 X 34V RMS (96.1V pk-pk)
Audio	Frequency Response	100 Hz – 5kHz
	Distortion	THD<1% (-40dB) full current both channels driven
	Automatic Gain Control	DSP Controlled, peak detecting
	High Frequency Compensation	7 DSP controlled, optimized stages
	Audio Signal Delay	10ms to 40ms
Display	Backlit TFT 480 x 128 pixels (95mm x 25mm)	
Control	Single Rotary Push Control	
Mains Input	Voltage	100V-120V/200V-240V AC (universal auto switching with PFC)
	Frequency	50Hz/60Hz
	Connection	IEC
Cooling	Custom heat sink with temperature controlled fan	

\* Z= 2.83 Ω @1.6KHz (250.63uH + 1.294 Ω) equivalent to 192.85m of 25mm flat copper cable.