

V34 PRO

Hearing Loop Driver



CONTACTA LARGE AREA LOOP SYSTEMS

The V34 PRO is a highly efficient and powerful constant current hearing loop driver with a single 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 V34 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

- › Theatres
- › Concert Halls
- › Places of Worship
- › Sports Arenas
- › Conference Facilities

Voltage and Current

- › 34V RMS @ 12A RMS


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Driver Area Coverage

Area		
1:1	1:2	1:3
7,559 ft ²	9,494 ft ²	12,917 ft ²

All perimeter loop areas are 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 0.01cm flat copper tape * loop cable installed on floor * listening plane 3.94ft.

Physical Data

Dimensions	Height – 1.73" Width – 17.04" Depth – 11.85"
Weight	7.49lbs
Construction	Mild Steel
Finish	Black Powder Coated

Accessories

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

Standards

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

Technical Data

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 Drive Voltage	1 x 34Vrms (96.1V pk-pk)
	Loop Drive Current	1 x 12Arms @ 1KHz* (33.94A) pk-pk >1200 seconds (20 minutes)
	Loop Connection	1 x NL4
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	