



Configuration:

D10-1 D Series Single Loop Driver (10 Amps)

Product Overview:

The D10-1 D Series Single Loop Driver is a 10 Amp single output class 'D' driver; meaning a 60%+ increase in energy efficiency over existing solutions. The driver features capacitive touch front panels with intuitive menus, built in test signals, and are fully networkable with a Wi-Fi accessible standard browser based control panel for remote set-up, monitoring and email alerts.

The D10-1 features a 10 Amp loop output plus ample voltage headroom, making it the most flexible solution on the market, suitable for a huge range of applications. The added power of the D10-1 provides a solution for installations in environments containing very high levels of metal, previously not possible without the use of combiners.

In another first for high-power Class D Induction Loop drivers, installation can be performed with total confidence, as unique multi-stage filtering ensures compatibility with both other system equipment and global EMC regulations.

Highlights:

- Drives 1 output channels at 10A_{RMS}
- Networkable with remote browser interface
- Digital display & intuitive 'touch' menu system
- 3 modes; Main, Status & Quick
- Highly energy efficient Class-D amplifier with low heat dissipation
- Up to 1,450m² Perimeter Loops area coverage
- Compact 1U rack mount unit with internal transformer for simple rack installation
- Optimised for speech frequencies with unmatched intelligibility & capable of high quality musical reproduction
- AGC & Dual Slope MLC
- Active status monitoring & remote fault reporting via email
- Data compliant with: IEC 62489-1 Standard

Includes:

One (1) D10-1 D Series Loop Driver (10 Amps x 1)
One (1) 1U 19" Rack Mount (brackets included)
One (1) Handbook and installation instructions
One (1) T-Coil Loop System present Sign (deaf logo)
One (1) Neutrik NL4 output connector
One (1) Region specific IEC power cable
One (1) Status and DC Connectors

Audio

Frequency Response	80 Hz to 6.3 kHz ± 3 dB
Distortion	THD+N < 0.2 %, 1 kHz sine wave at full current
AGC	Optimized for Speech, Dynamic Range > 36 dB
Metal Loss Correction	Corrects system frequency response due to metal structures in a building. Gain constant at 1kHz, adjustable gain slope from 0 to 4dB per octave in 0.25dB increments. Custom 2 slope MLC allows different slopes and transition frequency to be set via the menu. This does not compensate for signal loss from metal structures which can be significant.
Phase Shift	User selectable at 0° or 90° between outputs

Indicators

AGC LEDs	Indicates the status of the AGC in dB
Current LEDs	Indicates the peak current delivered to the loop
Clip LED	Indicates that the signal on the loop output is clipping and requires adjustment to either the driver settings, loop or potentially the selection of a more powerful driver
Error LED	Check the 'Status' menu for loop, amplifier and temperature errors and access fault codes

Interconnections

Dante™	RJ45 Ethernet input
Input 1	XLR balanced inputs, switchable between microphone and line via panel menu: Microphone specification; 200 - 600 Ω , sensitivity -64 dBu. Selectable 12 V phantom power on microphone only. Line sensitivity; -39 dBu, Input Impedance = 17k Ω
Input 2	Panel menu: Microphone specification; 200 - 600 Ω , sensitivity -64 dBu. Selectable 12 V phantom power on microphone only. Line sensitivity; -39 dBu, Input Impedance = 17k Ω
Slave I/O	6.35mm jack socket for linking more than one amplifier. Inserting plug disables other inputs
DC Output	Resettable, fuse protected 12V 0.1A. Operation can be configured via menu.
Loop Monitor Connection	Provides access to monitor actual loop current via a 3.5mm stereo headphone connector on front panel Channel A on left, channel B on right

Loop

Perimeter Loop - Coverage	No Metal (0dB): 1:1 Aspect Ratio 2 x 1,000 m ² (10,763 sq. ft.), 3:1 Aspect Ratio 2 x 1,1452 m ² (15,607 sq. ft.)
Loss Control Phased Array - Coverage	No Metal (0dB): 3,300 m ² (35,520 sq. ft.) Moderate Metal Loss (-5dB): 925 m ² (9,956 sq. ft.) High Metal Loss (-10dB): 400 m ² (4,305 sq. ft.) Severe Metal Loss (-15dB): N/A
Low Spill System	No Metal (0dB): 1,225 m ² (13,185 sq. ft.) Moderate Metal Loss (-5dB): 700 m ² (7,535 sq. ft.) High Metal Loss (-10dB): 340 m ² (3,659 sq. ft.) Severe Metal Loss (-15dB): N/A

Power

Power	120 VAC, 80 W, 45 - 65 Hz, Power Switch on front panel
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Physical

Dimensions (H x W x D)	44 x 430 x 290 mm (1.74 x 16.93 x 11.42 in.)
Mounting	Freestanding or 1U 19" rack mount (brackets included)
Weight	5.5 kg (12.2 lbs.)
Shipping Weight	6.89 kg (15.2 lbs.)

Environmental

Temperature - Operation	0 C (32 F) to 35 C (95 F)
Cooling	Variable speed fan cooled. Front inlet, rear exhaust
Relative Humidity	20 to 90% Relative Humidity
Standards	IP20 Rated

Compliance

Marks and Approvals

CE and ETL Listed