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CLD1 Compact Loop Driver

The CLD1 Compact Loop Driver is designed for counter systems and small area perimeter loop systems. Measuring only 128 x 74 x 35mm and with an output current of 2.4A RMF, the CLD1 is the smallest and highest performance amplifier in it's class. Designed and built to Ampetronic's high standards of reliability, and backed with a 5 year warranty and Ampetronic support, the CLD1 offers certainty of performance and the lowest lifetime cost available.

Audio quality is ensured with metal loss correction combined with Ampetronic's usual high standards of design. The CLD1 is designed for flexibility and convenience, featuring 2 independent microphone inputs with independent level controls, one of which can be switched to a line input. All cable connections are made on a single face of the unit, adding flexibility and further simplifying installation.



Features

- **Low lifetime cost**
- **5 Year warranty**
- **Very compact**
- **Choice of microphone and pre-formed loop in counter kit**
- **2 independent inputs**
- **1 mic input and 1 switchable mic/line input**
- **Metal loss compensation**
- **All connections to a single face for installation convenience**
- **12V DC or external AC power pack**
- **Free technical support**

Applications include:

- **Ticket and service counters**
- **Retail counters**
- **Information kiosks**
- **Reception desks**
- **Interview rooms**
- **Small meeting rooms**
- **Taxis and private cars**

Counter Loops

When supplied as a counter loop kit, the CLD1 comes with choice of microphone, a multi-turn preformed loop and simple installation instructions.

The loop should be mounted vertically in accordance with the installation instructions. Other installation methods are also available.

The CLD1 in this application will project a field to the requirements of IEC60118-4 approximately 1m from the preformed loop.

Perimeter Loops – Area Coverage (maximum)

The CLD1 is designed for small perimeter loop applications in rooms or in vehicles. Coverage with a single turn loop:

Room aspect ratio	1:1	2:1	3:1
Maximum area coverage	20	30	35

- the loop is 1-2m above or below the receiver height
- there are no metal structures in the plane of the loop
- there is sufficient voltage to drive the cable length – check table below.

The CLD1 is DC powered making it ideal for use in small vehicles such as taxis, private cars and small boats. We recommend a multi-turn loop in the headlining of the vehicle cabin – contact Ampetronic for an application guide.

Maximum Cable Length

With maximum current output the CLD1 can drive:

- Loops with DC resistance from 0.3 to 1.0Ω
- Impedance up to a maximum of 1.5Ω

When operating below maximum output, the CLD1 can drive longer cable lengths – contact Ampetronic for more details.

Maximum cable length is dependent on cable type and on the application.

Cable type	Maximum Cable Length (m)
0.75mm ² copper	57
1.0mm ² copper	65
1.5mm ² copper	70
1.8mm ² flat copper tape	100

CLD1 Product Information

Ordering Information

The CLD1 compact loop driver can be ordered as a stand alone loop driver or as part of a kit for a specific application.

Counter loop kits comprise 1 x CLD1, 1 x preformed loop, 1 x microphone (choice), 1 x loop present sign.and 1 x installation guide

Product Description

Product Description	Product Code
Compact loop driver	CLD1
Counter loop kit + boundary microphone	CLD1/CB
Counter loop kit + tie clip microphone	CLD1/CT
Counter loop kit + desktop microphone	CLD1/CD

Input adaptors and preamplifiers

By using the appropriate adaptor or preamplifier, the CLD1 can be used with multiple inputs or inputs from other sources:

Input type	Adaptor
Balanced dynamic mic (XLR)	MAT60
Balanced capacitor 15V phantom Power mic (XLR)	MAT60 + 15V PSU
Balanced line level	ATT100-T40
70V / 100V line input Transformer isolated	ATT100-T70
Low impedance speaker line, Transformer isolated	ATT100-T60

Standards compliance

The CLD1 is CE marked to all relevant safety and EMC standards

The CLD1 will meet the requirements of IEC60118-4 and the relevant recommendations of BS7594 if specified and installed according to Ampetronic's instructions

INPUTS

Power	12V DC @ 1.0A max. Fuse fitted to PCB, type T 1.6A L Green LED Power indicator.
AC Power adapter	Input 230V AC 45 – 65 Hz. Output:12Vdc at 1.0A max 110V ac option also available
Input 1	Microphone input unbalanced electret microphone 3.5mm mono jack socket. Input impedance 8kΩ. Phantom voltage 6V via 10kΩ source. Sensitivity -60 dBu for max output Overload level -14 dBu. Recessed control on front panel
Input 2	Switchable line / microphone Recessed switch on connector panel Microphone as for input 1 Line input: Input impedance 820kΩ Sensitivity -20dBu for max output Overload: >+20dBu.

OUTPUTS

Drive current	3.4A peak with continuous 1kHz sine LED indicator on front panel
Drive voltage	>4.5V peak at maximum output
Loop resistance:	0.3Ω to 1.0Ω resistive or <1.5Ω maximum reactive impedance
Loop connector	Vibration proof clamps, accept 0.5 to 1.5mm ²

AUDIO SYSTEM

Frequency response	80Hz to 6.3kHz ±1.5dB
Automatic gain control	AGC optimised for speech Dynamic range >36dB Recessed control on front panel Green LED indicator on front panel
Metal loss correction	0 to 4.5dB/octave. Recessed control on front panel

PHYSICAL

Cooling	Natural convection
Dimensions	128mm, 74mm, 35mm
Environment	IP20 : 20 to 90% relative humidity, -20°C to 50°C
Mounting	Horizontal or vertical panel or wall mount, with 2 screw fixings

Boundary Microphone
Q400



Tie clip Microphone
EM336



Desktop Microphone
EM195A



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