

## CLD1 Compact Loop Driver

- Desk microphone and pre-formed loop in counter kit
- 1 mic input and 1 switchable mic/line input
- Metal loss compensation
- 12V DC or external AC power pack supplied as standard



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 RMS, the CLD1 is the smallest and highest performance amplifier in its class. Designed and built to Protec's high standards of reliability, and backed with a 5 year warranty, the CLD1 offers certainty of performance and the lowest lifetime cost available.

Audio quality is ensured with metal loss correction (MLC) combined with Protec's usual high standards of design. The CLD1 is designed for flexibility and convenience, featuring 2 separate microphone inputs with independent level controls, one of which can be configured as a line input.

All cable connections are made on a single face of the unit, adding flexibility and further simplifying installation.

### Applications include:

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

### Counter Loops

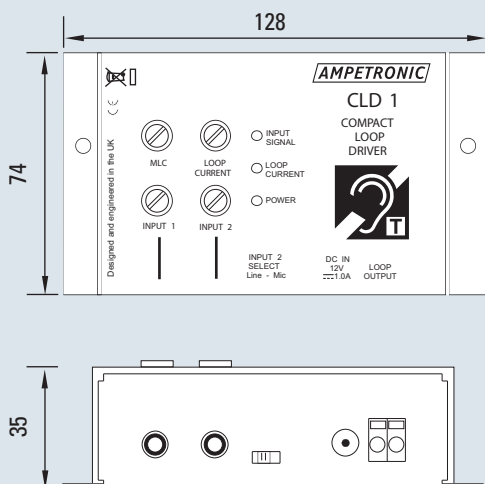
When supplied as a counter loop kit, the CLD1 comes with a desk microphone, a multi-turn preformed loop power supply and simple installation instructions.

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.

# Technical Specification

## Dimensions (mm)



## Technical Specification:

### 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.  
110V AC option also available

### Input 1

Microphone input  
unbalanced electret microphone  
3.5mm mono jack socket.  
Input impedance 8k $\Omega$   
Phantom voltage 6V via 10k $\Omega$  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 820k $\Omega$   
Sensitivity -20dBu for max output  
Overload: >+20dBu.

## Desktop Microphone



The desk microphone EM195A is a directional unit providing good sound pickup with reduced ambient noise and reverberation. It has a weighted base for stability when used free standing, alternatively it can be fixed to the edge of an upright panel using the rotational mounting coupling included.

Colour: Black  
Cable length: 2 metres  
Weight: 370 gram  
Accessories: Weighted Base  
Rotational mounting coupling

### Outputs

**Drive current** 2.4 Arms 3.4A peak  
LED indicator on front panel

**Drive voltage** >3.2Vrms >4.5V peak at maximum output

**Loop resistance:** 0.3 $\Omega$  to 1.0 $\Omega$  resistive or <1.3 $\Omega$  maximum reactive impedance

**Loop connector** Vibration proof clamps, accept 0.5 to 1.3mm<sup>2</sup>

### Audio System

**Frequency response** 80Hz to 6.3kHz  $\pm$ 1.5dB

**Automatic gain control** AGC optimised for speech  
Dynamic range >36dB  
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 $^{\circ}$ C to 50 $^{\circ}$ C

**Mounting** Horizontal or vertical panel or wall mount, with 2 screw fixings