



**Configuration:**

CLS2 Installation Loop Driver (4.9 Amps)

**Product Overview:**

The CLS2 is a professional installation loop driver capable of driving loop areas in excess of 4,300 sqft. (400 m<sup>2</sup>) with an unsurpassed clarity of sound for both music and speech for superior intelligibility. Designed for simple discrete installation, the CLS2 offers the most cost effective and capable solution in its class. The driver is very compact and designed specifically for wall mounting. All connections and controls are secured behind a tamper resistant, hinged, detachable cover. Combined with its small size, the range of mounting and cabling options ensure that installation is convenient and tidy in any environment. Input options are comprehensive, with three independent inputs for balanced microphone, balanced and unbalanced line, low impedance and 100V line speaker systems.

**Highlights:**

- Area coverage to 4,300 sqft. (400 m<sup>2</sup>)
- Designed for simple discrete installations
- Simple and fast installation
- Wall mounted
- Low lifetime cost
- Excellent proven reliability
- 5 year warranty
- Unparalleled sound quality and intelligibility
- Speech optimized gain control
- Metal loss corrector corrects frequency dependent loss from metal structures

**Includes:**

- One (1) CLS2 Installation Loop Driver (4.9 Amps)
- One (1) Handbook and Installation Instructions
- One (1) "T" Logo Installed Adhesive Sign - Large (11.7" x 8.3")
- One (1) P-clip, Nut and Washer

Product Specification: Installation Loop Driver (4.9 Amps)	
<b>Audio</b>	
Frequency Response	80 Hz to 6.5 kHz ± 3 dB
Distortion	THD+N < 0.2 %, 1 kHz Sine Wave at Full Current
AGC	Optimized for Speech, Dynamic Range > 36 dB
Alert/s	Alert 1: When energized, turns down the other inputs and produces a 520 Hz square wave tone on the loop. Min/Max Input Voltage 5-24 V AC/DC, Alert 2: A pair of contacts which when shorted turns down the other inputs and produces a pulsed 520 Hz square wave tone on the loop.
<b>Controls</b>	
Gain Control	Front recessed input level control
Metal Loss Correction	Correct system frequency response due to metal structures
Cooling	Natural Convection
<b>Indicators</b>	

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LEDs	AGC is Activated, Loop Current, Power
Drive Current Indication	LED
<b>Interconnections</b>	
Loop Connector/s	Screw Terminal
<b>RF</b>	
Input/s	Input 1: Balanced Mic/Line (-73/-31 dBu), 12 VDC Phantom Power, Input 2: Balanced Line (-33 dBu), 12 VDC Phantom Power, Input 3: Balanced Line, (-31 dBu), Input 4: Isolated 100 V/ Low Impedence Mono/Stereo Speaker, Input Impedance (Ohms) 120k, 120k, 7.8k, Min Level (dBu) +14/+14/-9, Max level (dBu) +47/+47/+27
<b>Loop</b>	
Perimeter Loop - Coverage	1:1 Aspect Ratio - 2,690 sq ft. (250 m <sup>2</sup> ), 2:1 Aspect Ratio - 3,337 sq ft. (310 m <sup>2</sup> ), 3:1 Aspect Ratio - 4,300 sq ft. (400 m <sup>2</sup> ) Condition 1 - Loop must be 3-6 ft. (1-2 m) above or below the receiver height, Condition 2 - There should be no metal structures in the plane of the loop, Condition 3 - There must be sufficient voltage to drive the loop
Min/Max Loop Resistance	0.2/1.3 Ohms
<b>Power</b>	
Compliance	ETL Listed
Power	230/115 VAC, 30W, 45-65 Hz, Connected via Chassis Screw Terminals
Drive Voltage	6.4 V (RMS) at Maximum Output Current
Drive Current	4.9 A (RMS), 7.0 A (Peak) with 1 kHz Sine Wave
Drive Current Peaks	Short Term > 10 A
Input Power Fuse	T250 mA
<b>Physical</b>	
Width	7.9 in. (200 mm)
Height	1.7 in. (44 mm)
Depth	7.9 in. (200 mm)
Shipping Weight	5.1 lbs. (2.31 kg)
Mounting	Vertical Panel Mounting
Cable Length	10 AWG - Max distance at full current - 232 ft. (71 m), 14 AWG - Max distance at full current - 214 ft. (65 m), 18 AWG - Max distance at full current - 146 ft. (44 m), 22 AWG - Max distance at full current - 81 ft. (25 m), FB1.8 - Max distance at full current - 286 ft. (87 m)
Weight	4.0 lbs. (1.81 kg)
<b>Environmental</b>	
Relative Humidity	IP20 Protection, 20 to 90% Relative Humidity, 32 F (0 C) to 95 F (35 C)