



# Univox® CLS-5

Compact Loop System  
for vehicles and TV lounges

## Applications

- Coaches
- Buses
- Lifts
- Large TV Lounges

## Features

- 7 inputs, including digital (optical/coax) and SCART
- 110-240VAC or 12-24VDC (battery/backup)
- Electronic transformers for superior efficiency and audio intelligibility
- Compliant with Automotive directive 72/245 EEC as amended 2009/19/EC.
- Dual Action AGC (automatic gain control)
- Sensitive mic input with phantom power
- 24V output for external device connection
- MLC (Metal Loss Correction)
- Built-in Video Sync, to eliminate echo effect
- Alert input
- Full AutoSCART switching
- Environmental friendly: 98% efficiency, 50% of the weight, >90% less copper

**Warning!** When installing Univox CLS-5 in an application with a DC power supply, a FGA-40 ground isolator (art.nr: 286 020) must be installed between the loop amplifier input and the signal source. If the signal source and the amplifier's input are not galvanically isolated, a serious error may occur.

## The universal loop driver with digital input

With seven inputs and a wide range of operating voltages, this high power loop amplifier is perfect on board vehicles as well as in large TV lounges.

The CLS-5 can operate from 110-240 VAC and 12-24 VDC, supporting its suitability for a diverse range of applications, from elevator/lift applications, buses and coaches to large TV lounges and meeting rooms. A range of inputs, including digital and coaxial inputs, makes integration with any audio system simple. Fully automatic switching SCART connectors secure easy connection to an external device such as a DVD or digital box.

## Never miss a word!

Audio quality is significantly enhanced due to the embedded electronic transformer, eliminating modulation distortion at high power output. The audio chain incorporates also features such as the Metal Loss Correction, to fine tune for the effects of metal loss, and the unique Dual Action AGC (automatic gain control) that restores the audio instantly after noise suppression.

TV features include built-in Video Sync (digital delay), eliminating the echo effect when connected to a flat screen TV. The CLS-5 has also an alert input which can be activated by vehicles on board alarm, or - if installed in a TV lounge - a doorbell or a telephone.

The CLS-5 is compliant with the relevant automotive standards and the carbon footprint has been substantially improved with a new electronic design. With 98% efficiency, 50% of the weight and 90% reduction of copper compared to traditional amplifiers, the CLS-5 is one of the most environment friendly loop drivers on the market.

## Note

1. The CLS-5 can cover over 200 m<sup>2</sup>, however area coverage can be significantly reduced by the proximity and conductivity of metal in the same plane as the loop.
2. For lift installation the CLS-5 has sufficient power to drive a multi turn loop on the roof of a lift car eliminating the need for expensive internal loop fittings. A survey is advised.
3. Coach constructions are varied. A survey is advised.

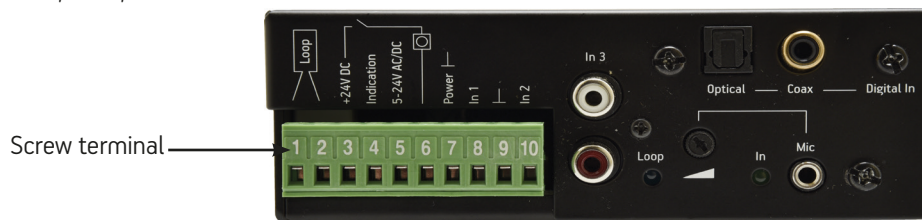


## Technical data

<b>Power supply</b>	110-240 VAC, primary switching power supply 12-24 VDC as primary power or backup. 12 V will reduce the output	
<b>Loop output</b>	Max current	10Arms (15Arms using external DC-input), short-circuit driven
	Max voltage	24 Vpp (open output)
	Frequency range	70-5000 Hz ( $\pm 3$ dB)
	Distortion	1% at 1 $\Omega$ DC och 80 $\mu$ H
	Connection	Screw terminal
<b>Inputs</b>	Digital	Optical/Coax
	Microphone/Line Mic	2-250 mV/5 k $\Omega$ (12-24V phantom), 3.5mm
	2 x RCA/phono, In3	35 mV/5 k $\Omega$
	SCART	35 mV-10 V/5 k $\Omega$
	Screw terminal, In1	35 mV-10 V/5 k $\Omega$
	Screw terminal, In2	25mV-10V/330 $\Omega$
<b>Dual Action AGC</b>	Working range	>70 dB
	Attack time	2-500 ms
	Decay time	0,5-20 dB/s
<b>Controls</b>	Metal loss control	Treble control, 0 - +18 dB, internal control
	Loop adjustment	Potentiometer control
	Delay synchronization	Potentiometer control
<b>Indications</b>	Power connected	Yellow LED
	Loop current	Blue LED
	Input signal	Green LED
<b>Other</b>	Dimensions	255 x 135 x 47 mm (WxDxH)
	Weight	1 kg
	Colour	Black
	Part no	212012    CLS-5

## Accessories

Part No	Description
241602	M-2, Goose neck microphone for table, 3.5mm plug, cable=1.5m
242401	13A Microphone for speaker, velco, 3.5mm male, cable=1.8m
581050	LM-90A, Tie clip microphone, 3.5 mm plug, cable=1.1 m
283240	Univox Room loop cable roll, 0.75 mm <sup>2</sup> , incl. 50 clips, 30 m, light grey
285001	Label 1 "T-coil, set the hearing aid in T- or MT-mode", 140x188mm, box
285021	Label with T symbol, 125 x 114 mm, self adhesive
285023	Label with T symbol, 80 x 73 mm, self adhesive
861017	Installation Cable EQQXB EASY 1x4x0.5, white, 100m bobbin
284014	SCART cable, male - male, 1m
281031	Fiber optic audio cable, Toslink-Toslink, 2m
281032	Fiber optic audio cable, Toslink-Toslink, 1m
281061	SPDF/Toslink-splitter
283260	Loop mat, 600x600x4mm, black
589060	Coaxial cable, male, 1.5m



The User Guide, Installation Guide and Certificate of Conformity are available at our website for download.  
The brochure is based on the information available at the time of printing and are subject to change without notice.