



# Univox® MLS-1, MLS-1P & MLS-2

## Compact hearing loop amplifiers

### Features

- Easy & Fast Installation – Compact, low-profile design for streamlined integration
- Wide Power Supply Range – Supports various voltage inputs for flexible setups
- Efficient Class-D Technology – Exceptionally high efficiency with low heat generation
- Versatile Audio Input – Connects to both Mic and Line level signals
- Univox AGC – Automatic Gain Control for unsurpassed speech intelligibility
- MLC (Metal Loss Compensation) – Fine-tunes audio to counteract metal-induced signal loss
- Reliable Compliance – Meets IEC 60118-4 industry standards

### Hearing loop amplifier modules for OEM integration

The Univox MLS-Series is a line of compact, modular PCB amplifiers. This versatile series offers different options to accommodate various OEM application and challenges encountered in small installation requiring complete hearing loop.

MLS-1 & MLS-2 comes equipped with sets of Phoenix connectors for power, signal input, and output while MLS-1P features an alternative connection option with pin strips the connectivity and minimize the unit's profile for streamlined installations.

Built on the efficient class-D platform, Univox MLS-series is optimized for systems requiring high energy efficiency and low heat generation, making it ideal for compact installations with restricted airflow.

The MLS-series includes AGC, enabling easy connections to various input signal sources. Features also Metal Loss Compensation (MLC) which enables fine tuning & compensation metal loss and attenuation caused by metal constructions.

Correctly installed and commissioned the system complies with all requirements of standard IEC 60118-4, guaranteeing adherence to industry standards and regulations.

### Applications include:

- Reception desks and ticket counters
- Information- and help points
- Kiosks and booths
- Intercoms
  - Lifts
  - Emergency phones
  - Customer service points
  - Booths and gates
  - Drive-throughs
  - Door entries

# Technical Data MLS-1, MLS-1P & MLS-2

	MLS-1	MLS-1P	MLS-2
<b>Power Supply</b>			
External Power Supply:	6-24 VDC / 12-50 VA		6-30VDC/12-50VA
Recommended Power Supply:	12-24 VDC / 15-50 VA		15-30V/25-50VA
Idle current:	36mA		50mA
Idle power @ 12VDC:	0.3W		0.5W
<b>Connectors</b>	Phoenix Contact	10 Pin Headers	Phoenix Contact
<b>Trimmers</b>		MLC Input Output	
<b>Input Mic-phantom / Line (MLS-1P has only Line)</b>			
Type:	Differential/Balanced		Galvanically isolated > 1kV
Mic Input:	13 mVrms		13 mVrms; AGC/knee
Line Input:	85 mVrms – 7Vrms		250mVrms - 7Vrms
Input Impedenace:	2 kOhm		2 kOhm
<b>Output</b>			
Max Volt Out:	48Vpp		60Vpp
Mx Current:	6 Arms		6 Arms
Max Power:	50W		75W
<b>Loop Load</b>			
Workable Load range:	0-30 Ohm		
Recommended:	0.35-1.5 Ohm		
<b>Dimensions</b>	78 x 53 x 16 mm		105 x 70 x 16 mm
<b>Weight</b>	35g		50g
<b>Environment</b>			
Temp range:	-40 to 75°C		
<b>PCB classification</b>		94L	
<b>Part.no</b>	204000	204000P	204002

For more information, please visit [univox.eu](http://univox.eu)

