



Univox[®] PLS-100

Up to 450m² area coverage

Features

- High output current to provide standard compliant coverage up to 450 m²
- 5 year full warranty for piece of mind and low cost of ownership
- Rugged mechanical housing and robust short circuit proof electronics for extended reliability
- Two balanced programmable XLR inputs for installation flexibility and high common mode noise rejection
- Proprietary Dual Action AGC for unsurpassed sound quality
- Easy to read LED indicators to overview system performance
- Engineered for simplicity making standard compliant system design and installation easy

Common Applications

- Houses of worship
- Conference centres
- Exhibition halls
- Schools/Lecture halls
- Office meeting rooms
- Theatres
- Cinemas
- Concert halls
- Sport arenas



A PLS-100 is used in St Leonard's church in the UK.

This compact loop amplifier has been designed to be installed as a table top unit, wall mounted or rack mounted. It delivers 11 Amps at 31 Vpp to provide standard compliant area coverage up to 450 m² with the enviable, but essential clarity of sound for intelligibility that you expect from our products. Housed in a rugged, convection cooled housing, the robust short circuit proof electronics provide quiet, reliable operation backed by our 5 year warranty. As all PLS's, the PLS-100 is designed for long lasting performance and simple installation.

Maximum Area Coverage

With 4 parallel multi-loops	up to 450 m ²
With a perimeter loop 1:1 room ratio	up to 300 m ²
With a perimeter loop 1:3 room ratio	up to 420 m ²

The high output current of the PLS-100 facilitates the use of different loop configurations enabling greater flexibility in loop design to provide coverage of large areas up to 450m² or compensation for signal losses caused by construction metal. The most suitable and practical configurations are single turn perimeter loops, 2 turn perimeter loops and multi-loops.

Engineering Simplicity

Engineering Simplicity is a Univox tradition; the PLS range is no exception and has been designed to simplify the amplifier selection, loop design and installation processes. All amplifiers in the range are specified to operate with single and 2 turn loops using the 2.5mm² cable. By installing a twin core multi-strand cable, the installer does not need to calculate cable impedance and he always has the flexibility to modify the performance of the system by:

- Amplifier selection (defines the basic power available to the system)
- Connecting only one core - (standard connection method)
- Connecting 2 cores in parallel (is equivalent to using a 5mm² cable halving the impedance)
- Connecting 2 cores in series (forms a 2 turn loop approximately doubling the impedance)
- Connecting 2 amplifiers (doubles the power of the system)

With this flexibility built in and assuming no fundamental laws of physics have been broken, the installer can be confident that the perimeter loop installation will perform to standard without spending hours on measurements and calculations.

Other cable types can be used, consult our loop design guide for information.



Technical data

Power	Supply	230-240 V AC
Transformer		75 VA Toroid
Inputs	Line/Microphone	2 XLR jacks on rear panel. Programmable for microphone/line sensitivity, level, phantom voltage on/off, balanced/unbalanced and priority operation. 1 RCA phono socket, 50 mV-10 V/10 kOhm
Loop output	Loop Connection	Screw terminals on rear panel.
	Loop Drive Current	11 A rms, 125 ms 1 kHz sine wave
	Loop Drive Voltage	31 Vpp
Line outputs	Line Out	0 dBv phono jacks (without AGC function)
	SLS	0 dBv phono jacks (with AGC function)
Audio	Frequency Response	100 Hz-5 kHz (±3 dB)
	Distortion	< 1 %
Automatic gain controls	Output AGC	Output protection – limits continuous signals e.g. self-oscillation or sine wave to -10 dB after 0.6-1 s. Short pulses and normal program signals are not affected. Can be disabled on PCB.
	Dual action AGC	Dynamic Range: > 50-70 dB Attack time: 2-5 ms Release time: 0.5-20 dB/s
Controls	Loop Current	0-14 A rms (recessed potentiometer on rear panel), 125 ms
	Treble/Metal loss correction	0- +9 dB (recessed potentiometer on rear panel)
	Input level	3 independent controls next to each input (recessed potentiometers on rear panel)
	Programmable inputs	Set by adjusting jumpers on PCB
Indicators	Mains power	LED on front panel
	Input level	LED on front panel
	Loop current	LED on front panel
Physical data	Dimensions, Weight	295 x 62 x 188 mm (W x H x D), 3.4 Kg
	Cooling	Convection cooled
	Environment	IP20, 10° C to 40° C
Order data	Part No	214100/214110 (120 V)



Mounting plate 19" for PLS-100/300



Common Accessories

Univox Listener

This easy to use loop listener indicates field strength levels of 400 mA/m and 200 mA/m in accordance with IEC 60118-4. It is an essential tool for the facility manager as well as an alternative assistive listening device for the Hard of Hearing.



Univox FSM 2.0

Engineered for simplicity, the Univox FSM 2.0 is a microprocessor controlled field strength meter featuring a simple 5 step programme for commissioning loop systems to the performance standard IEC 60118-4.



Copper foil

This insulated 25 mm wide copper foil is only 0.25 mm thick and is easily concealed under most floor finishes. It is ideal for multi loop and Super loop installations.



Wireless microphone system

Univox offer a range of wireless microphones and receivers which can be used in conjunction with any loop system or independently as an assistive listening system where an induction loop system is not practical.



For additional information, please refer to User Guide/Installation Guide and CE Certificate which can be downloaded from www.univox.eu. If required, spare part list or other technical documents can be ordered at support@edin.se.