

# Univox® PLS-700

High Power Audio  
Induction Loop Amplifier  
for areas up to 1800m<sup>2</sup>



## Features

- High output current to provide standard compliant coverage up to 1800 m<sup>2</sup>
- 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
- Three 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



PLS-700's in Berwaldhallen Concert Hall, Sweden

The PLS-700 delivers an impressive 25Amps(65App) at 47Vpp to provide standard compliant area coverage up to 1800m<sup>2</sup> 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-700 is designed for enduring performance and simple installation.

## Maximum Area Coverage

With 4 parallel multi-loops	1800m <sup>2</sup>
With a perimeter loop 1:1-1:3 room ratio	700m <sup>2</sup>

The high output current of the PLS-700 facilitates the use of different loop configurations enabling greater flexibility in loop design to provide coverage of large areas up to 1800m<sup>2</sup> 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 2.5mm<sup>2</sup> 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 5mm<sup>2</sup> 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

<b>Power</b>	Supply	230-240V AC
<b>Transformer</b>		300VA Torroid
<b>Inputs</b>	Line/Microphone	3 XLR jacks on rear panel. Programmable for microphone/line sensitivity, level, phantom voltage on/off, balanced/unbalanced and priority operation.
<b>Loop output</b>	Loop Connection	Screw terminals on rear panel.
	Loop Drive Current	25Arms, 125ms 1 kHz sine wave 65App /0.060hm
	Loop Drive Voltage	47Vpp
<b>Line outputs</b>	Line Out	0dBv phono jacks (without AGC function)
	SLS	0dBv phono jacks (with AGC function)
<b>Audio</b>	Frequency Response	100Hz-5kHz (±3dB)
	Distortion	<1%
<b>Automatic gain controls</b>	Output AGC	Output protection – limits continuous signals e.g. self oscillation or sine wave to -10dB after 0.6-1s. Short pulses and normal program signals are not affected. Can be dissabled on PCB.
	Dual action AGC	Dynamic Range >50-70dB Attack time 2-5 ms Release time 0.5-20dB/s
<b>Controls</b>	Loop Current	0-25A rms (recessed potentiometer on rear panel), 125ms
	Treble/Metal loss correction	0- +9dB (recessed potentiometer on rear panel)
	Input level	3 independent controls next to each input (recessed potentiometer on rear panel)
	Programmable inputs	Set by adjusting jumpers on PCB
<b>Indicators</b>	Mains power	LED on front panel
	Input level	3 LEDs (one per input) on front panel
	Loop current	5 LEDs on front panel
<b>Physical data</b>	Dimension, Weight	2U 19" rack mount standard (388x88x305mm WxHxD), 8 kg
	Cooling	Convection cooled (finned heat sink on rear panel)
	Environment	IP20, 10°C to 40°C
<b>Order data</b>	Part No	214700/214710 (120V)



## Common Accessories

### Univox Listener

This easy to use loop listener indicates field strength levels of 400mA/m and 200mA/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 25mm wide copper foil is only 0.25mm 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](http://www.univox.eu). If required, spare part list or other technical documents can be ordered at [support@edin.se](mailto:support@edin.se).