



UniVox® PLS-900

Loop amplifier, 500VA, 700m²



UniVox® PLS loop amplifiers are specifically designed for professional applications. UniVox® grants for high quality wireless sound transmission to hearing instrument users in both public and private environment, worldwide. The super rugged short-circuit proof outputs, programmable and balanced XLR-inputs creates a flexible and powerful loop system.

The UniVox® Dual Action AGC creates a stable constant field strength level with high speech perception even in harsh environment. A built-in monitor output for a small speaker or headphones makes loop quality checks easy. UniVox® PLS fulfils the international IEC 60118-4:2006 and British Standard requirements for loop amplifiers.

UniVox® PLS-900 with long-time enhanced power to overcome metal absorption covers areas up to 700 m². The design with an extraordinary rugged output current capability gives a secure and powerful amplifier with a large safety margin.

Features

- Driven by a 500VA toroid transformer
- Enhanced power for metal reinforcement
- 700m², free field, square loop, IEC 60118-4:2006
- Extremely high output current 78App
- Short-circuit proof
- Automatic resettable fuse
- Three XLR-inputs
- Each input is programmable: sensitivity, phantom voltage, balanced/unbalanced and priority
- Dual action AGC for high speech intelligibility
- High safety thanks to output voltage and current controlled AGC for minimizing feedback problems
- The magnetic field/output current can easily be monitored through an earphone/loudspeaker
- Treble control to compensate high frequency losses due to reinforcement
- LEDs indicates mains power, input level and loop current
- Low pass filter reduce the risk of high frequency interference

For additional information, please refer to user guide/installation guide and CE certificate which can be downloaded from "Product databank" at www.edin.se. If required, spare part list or other technical documents can be ordered through support@edin.se.



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Power requirements		230-240V AC 50Hz, 25-1000W, 10A
Area of coverage		700 m ² according to IEC 60118-4:2006, 1-turn square loop, free field
Loop output	<i>Max current</i>	78App / 0.06Ohm 25A RMS, 10-300ms, 1kHz
	<i>Max voltage</i>	47Vpp
	<i>Output AGC</i>	Sets voltage and current for continuous signals like self oscillations or sine waves to -10dB after 0.6-1 second. Short pulses and normal program signals are not limited
	<i>Frequency response</i>	100-5000Hz (±3dB)
	<i>Distortion</i>	<1%
	<i>Connection</i>	Screw-terminal on the rear panel
Inputs	<i>Input 1-3</i>	XLR-sockets, programmable for the following parameters: microphone/line sensitivity, level, phantom voltage on/off, balanced/unbalanced, priority for all inputs.
Line output	1. "Line out"	0dBm phono socket on the rear panel. (Without AGC-function)
	2. "SLS"	0dBm phono socket on the rear panel. (With AGC-function)
Dual action AGC	<i>Working range</i>	>70dB
	<i>Attack time</i>	2-500ms
	<i>Release time</i>	0.5-20dB/s
Controls	<i>Treble control</i>	0-+9dB, potentiometer on the rear panel
	<i>Loop adjust</i>	0-700m ² , potentiometer on the rear panel
	<i>Input level</i>	Input 1-3 has separate input level potentiometers on the rear panel
Indications	<i>Mains connection</i>	LED, front panel
	<i>Input level indicator</i>	3 LEDs, front panel
	<i>Loop current indicator</i>	5 LEDs, front panel
Other	<i>Dimensions</i>	438x88/125x305mm (BxHxD) 19"-rack standard
	<i>Weight</i>	9.2kg
	<i>Colour</i>	Black with blue and white printing
	<i>Part No</i>	214900 (UniVox® PLS-900)

Loop Monitor The loop current indicates by LEDs at the front panel. Furthermore, there is a 6.3 mm socket on the front panel for speaker or headphone monitoring.



General planning procedures

- Use a 2x2.5mm² twin wire. Whenever possibly use a 2-turn loop. Use a 1-turn loop only if verified by measurement. Avoid using thinner cables as the amplifier's efficiency may be affected.
- If the space for the loop cable is limited, a flat copper foil can be used as an alternative.
- The field strength can be reduced due to reinforcement ironing and such like. If so, the field strength can be doubled (appr. 6dB) if 2 amplifiers are used, one for each separate wire of the twin wire, or use a more powerful amplifier as an alternative.
- Do not place input cables close to/in parallel with the loop wire.
- Do not place the loop wire close and in parallel to reinforcement iron and such like.
- If the smallest distance in a loop exceeds 5-10 metres, please consider another loop configuration, like the "eight"-loop or preferable the UniVox® SLS – Super Loop System®.
- Please be aware of the overspill effect. If the overspill is not acceptable, use UniVox® SLS – Super Loop System® with minimized overspill. Log on to www.edin.se for more information.
- Beware of the background noises created by other electrical equipment when planning the loop system.
- Always perform a final measurement with the actual signal source, using UniVox® FSM Field Strength Meter according to the IEC 60118-4:2006 standard.

Recommended MINIMUM loop wire area for UniVox PLS-900 when installed to an existing loop system

Loop area m ²	Wire area 1-turn-loop	Wire area 2-turn-loop
300-700	>=5 mm ²	Not recommended
150-300	>=4 mm ²	2x2.5 mm ²
70-150	Not recommended	2x2.5 mm ²
20-70	Not recommended	2x2.5 mm ²