



# UniVox® PLS-300

## Loop amplifier 300m<sup>2</sup> (IEC 60118-4)



The UniVox® PLS series of amplifiers has been designed for use in professional applications where high stability and secure operation are imperative. The fully 100% short-circuit proof UniVox® PLS amplifiers with programmable, balanced, XLR-inputs and super rugged output power fulfil these requirements. The dual action AGC and output controlled AGC for constant fieldstrength result in a stable sound with high speech perception even in harsh environment. The built-in monitor output makes it easy to check quality of the sound of the loop.

UniVox® PLS fulfils the IEC Standard and British Standard for loop amplifiers.

UniVox® PLS-300 covers areas up to 300m<sup>2</sup>. The short-circuit proof output with 14A RMS gives a secure and powerful amplifier with a large safety margin.

### Features

- High output current 14 A RMS, 60App
- Short-circuit proof
- Automatic resettable fuse
- Two programmable, balanced XLR-inputs
- One phono input
- Two line outputs
- Extra rugged sockets
- Dual action AGC for high speech intelligibility
- High safety thanks to output voltage and current controlled AGC for minimizing feedback problems
- The magnetic field can easily be monitored through an earphone/loudspeaker
- Treble control to compensate high frequency losses due to reinforcement
- Three LED's indicating mains power, input level and loop current
- Well proven high quality loop technology

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



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## System Overview

<b>Power requirements</b>		230-240V AC 50Hz, 7-200W, 10A.
<b>Area of coverage</b>		300 m <sup>2</sup> according to IEC 60118-4, 1-turn-loop, free field.
<b>Loop output</b>	<i>Max current</i>	60 A peak to peak, 1-5ms, 1kHz, short-circuit. 14 A RMS, continuously 1kHz, short-circuit.
	<i>Max voltage</i>	31V peak to peak
	<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 - 5000 Hz (±3dB)
	<i>Distorsion</i>	<1%
	<i>Connection</i>	Screw-terminal on the rear panel.
<b>Line outputs</b>	1. LINE OUT 2. SLS	0 dBm-phono (without AGC-function) on the rear panel. 0 dBm-phono (with AGC-function) on the rear panel.
<b>Inputs</b>	IN1 and 2	0,5mV - 180mV/10kOhm (Mic) alt. 50mV-10V/10kOhm (Line). Separate 2-channel-AGC, phantom voltage 9-12V. XLR-sockets on the rear panel.
	IN 3	50mV-10V/10kOhm, phono sockets on the rear panel.
<b>Dual Action AGC</b>	<i>Working range</i>	>70dB
	<i>Attack time</i>	2-500ms
	<i>Release time</i>	0.5-20dB/s
<b>Controls</b>	<i>Treble control</i>	0 - +9dB, potentiometer on the rear panel.
	<i>Loop adjust</i>	0 - 300m <sup>2</sup> , potentiometer on the rear panel.
	<i>Input level</i>	Input 1-3 has separate input level potentiometers on the rear panel.
<b>Indications</b>	<i>Mains connection</i>	Green LED on the front panel.
	<i>Input Level Indicator</i>	Green LED on the front panel.
	<i>Loop Current Indicator</i>	Green LED on the front panel.
<b>Other</b>	<i>Dimensions</i>	295x62x188mm (WxHxD)
	<i>Weight</i>	3.4 kg
	<i>Colour</i>	Black with blue and white printing.
<b>Part No</b>		214300

**Note** *Dual Action AGC* The attack/decay times are dynamically set by program material.

**Loop Monitor** The Loop Current indicates by 1 green LED on front panel. Furthermore, there is a 6.3mm socket on the front panel for speaker or headphone monitoring, an important and useful function for the system operator.

## Accessories

Part No	Description
289011	Mounting plate 19"
230450	UniVox Listener loop receiver/test instrument
230453	UniVox Listener loop receiver/test instrument, incl. light weight head phones
401010	FSM Field strength meter
401025	FSM Field strength meter, delivered in case with CD record

## Recommended minimum loop wire area for UniVox® PLS-300, when installed to an existing loop system

Loop area m <sup>2</sup>	Wire area 1-turn-loop	Wire area 2-turn-loop
200-300	3.0 mm <sup>2</sup>	Not recommended
150-200	3.0 mm <sup>2</sup>	2x2.5 mm <sup>2</sup>
70-150	Not recommended	2x2.5 mm <sup>2</sup>
<70	Not recommended	2x1.5 mm <sup>2</sup>

