



EPD®



UniVox® PLS-100

Loop amplifier 170m² (IEC 60118-4)



Rear



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-100 covers areas up to 170m². The short-circuit proof output with 11A RMS gives a secure and powerful amplifier with a large safety margin.

Features

- High output current 11 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

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Power requirements		230-240V AC 50Hz, 3,5-100W, 10A.
Area of coverage		170 m ² according to IEC 60118-4, 1-turn-loop, free field.
Loop output	<i>Max current</i>	60 A peak to peak, 1-5ms, 1kHz, short-circuit.
	<i>Max voltage</i>	11 A RMS, continuously 1kHz, short-circuit.
	<i>Output AGC</i>	31V peak to peak
		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 respons</i>	100 - 5000 Hz (±3dB)
	<i>Distortion</i>	<1%
	<i>Connection</i>	Screw-terminal on the rear panel.
Line outputs	1. "LINE OUT"	0 dBm-phonon (without AGC-function) on the rear panel.
	2. "SLS"	0 dBm-phonon (with AGC-function) on the rear panel.
Inputs	"IN1 & 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, phonon sockets on the rear panel.
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 - 170m 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>	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.
Other	<i>Dimensions</i>	295x62x188mm (WxHxD)
	<i>Weight</i>	2.7 kg
	<i>Colour</i>	Black with blue and white printing.
Part-no		214100

Note	<i>Dual Action AGC</i>	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		289011 Mounting plate 19" 230415 UniEar loop receiver 230417 UniEar loop receiver with built-in loudspeaker.

General planning procedures

- Use a 2x2.5mm² twin loop wire, this gives a high flexibility for the installer. If other loop wires are used, the amplifier's efficiency may be affected. Recommended minimum loop wire area is described in the table.
- 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 to reinforcement iron and such like.
- If the smallest distance in a loop exceeds 10 meters, please consider another loop configuration, like the "eight"-loop.
- Please be aware of the overspill effect. If the overspill is not acceptable, plan the system for UniVox® 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 inspection of the loop installation, using FSM Field Strength Meter according to the IEC 60118-4 standard.

Recommended minimum loop wire area for UniVox® PLS-100, when installed to an existing loop system.

Loop area m ²	Wire area 1-turn-loop	Wire area 2-turn-loop
75-170	3.0 mm ²	Not recommended
50-75	1.5 mm ²	2x1.5 mm ²
35-50	1.0 mm ²	2x1.0 mm ²
<35	0.75 mm ²	2x0.75 mm ²

MANUFACTURER'S WARRANTY

BO EDIN AB warrants its products to be free from defects in materials and workmanship for a period of 2 years. This does not cover malfunctions due to installations not being performed according to our installation instructions.