

UniVox® PLS-100 installation guide.

General planning and installation procedures!

1. Preparations.

- a) If the loop cable is already planned, install according to the drawings. Then read clause 2.
 - b) If the loop cable is already planned and installed, read clause 2.
 - c) If the loop cable is to be planned and installed "in-situ", please read the following hints.
- Use a 2x2.5mm² twin loop wire, for high flexibility to 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 at page 3.
 - 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 / parallel to 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.
 - Proceed to item 2.

2. Installation.

Mount the amplifier vertically or horizontally. Use the drill mask to mark the positions for the holes. If the amplifier is to be mounted in a 19"-rack, use a separate mounting panel (part-no 289011) in which the amplifier is placed. The rubber feet should not be removed. The amplifier must have free access to normal room temperature.

	Sensitivity	Impedance	
IN1 / Mic	0.5mV-180mV	10kOhm	Default setting
IN1 / Line	50mV-10V	10kOhm	
IN2 / Mic	0.5mV-180mV	10kOhm	
IN2 / Line	50mV-10V	10kOhm	Default setting
IN3	50mV-10V	10kOhm	

Connect the loop cable. Connect the loop cable to terminal **F** on the rear panel. Please look at page 4 for 1- or 2-turn loop connections.

Connect signal source/s to the inputs

"IN1-3", **K,L&M** on the rear panel. See page 4 for balanced/unbalanced connections. The inputs "IN1-2" can be set to different sensitivities according to table. If you need to set IN1-2 otherwise than default, remove the cover and set the switches S1-6 according to table at page 4.

Connect Line Outputs:

UNIVOX® PLS-100 has 2 line outputs; **I** = "LINE OUT" 0dBm without the input AGC activated (linear), and **J** "SLS" 0dBm with the AGC-function activated.

Connect mains power to the inlet **E**. The LED **D** on the front panel starts lighting. **UNIVOX® PLS-100** has an automatic resettable built-in mains fuse. If it's triggered by any reason, please remove the mains power and let the amplifier cool off. Investigate the possible fault reason before reconnecting the mains power.

3. Function check (basic start up check)

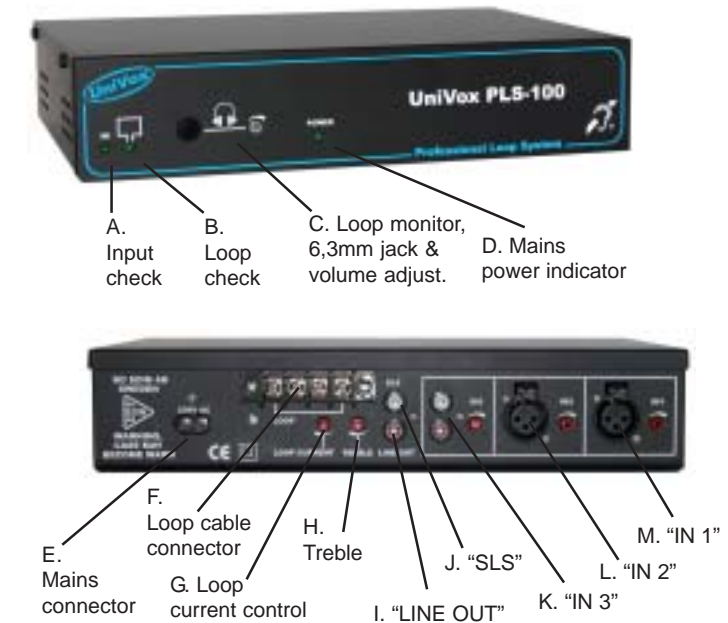
Adjust the input levels one by one letting the LED **A** on the front panel emitting at the peaks of the program signal source (AGC knee).

Increase the Loop Current trimmer **G** until the LED **B** on the front panel lights up. Use the loop monitor output **C** for direct listening to the output current (magnetic field). If necessary, adjust TREBLE with the potentiometer **H**.

4. Certification. Very important!

Adjust the amplifier following "The UniVox Way" for certification according to IEC-60118-4 (BS6383) using a field strength meter, like the FSM. The FSM follow the standard of Sound Meter with correct integration time and true RMS measurement.

5. Inform people responsible for the loop system how to use the system. Recommend a listening device for a daily basic check of the loop system. The UniEar is a high quality listening device with built-in level check.



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	3.0mm ²	Not recommended
50-75	1.5mm ²	2x1.5mm ²
35-50	1.0mm ²	2x1.0mm ²
<35	0.75mm ²	2x0.75mm ²



Field Strength Meter FSM



Loop receiver UniEar

Distributor: