

Disconnect the mains power before removing the cover!

IN1

Phantom power on (Default): S2 & S3 closed. Phantom power off: S2 & S3 open.
Microphone sensitivity (Default): S1 & S20 open. Line sensitivity: S1 & S20 closed.

IN2

Phantom power on: S9 & S12 closed. Phantom power off (Default): S9 & S12 open.
Microphone sensitivity: S4 & S21 open. Line sensitivity (Default): S4 & S21 closed.

IN3

Phantom power on: S14 & S15 closed. Phantom power off (Default): S14 & S15 open.
Microphone sensitivity: S13 & S22 open. Line sensitivity (Default): S13 & S22 closed.

AGC

AGC on (Default): S18 closed. AGC off: S18 open.

Priority

Closing of the following jumpers is used to determine which inputs are going to muffle the other inputs: S11 (IN1, Default), S10 (IN2) & S8 (IN3).
Closing of the following jumpers is used to determine which inputs can be muffled by other inputs: S5 (IN1), S6 (IN2) & S7 (IN3, Default).
If jumper S5 (IN1), S6 (IN2) or S7 (IN3) is left open the input cannot be muffled regardless of the setting of S11, S10 & S8.

ATTENTION! Jumpers S16, S17 & S19 shall NOT be changed!



WARNING!
Live terminals enclosed!

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PLS-700

Univox Loop Amplifier
Installation Guide



Maximum area coverage in free field conditions:

- With 4 parallel multi-loops 1800m²
- With a perimeter loop 1:1-1:3 room ratio 700m²

Note that metallic interference will impact on the coverage by 30% to total dampening depending on loop wire placement.

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Hearing excellence since 1965



Univox® PLS-700 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.

Hints for planning the loop cable

- 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 on page 3.
- If the space for the loop cable is limited, a flat copper foil (Part No 861023 or Part No 861025) 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.univox.eu for more information.
- Beware of the background noises created by other electrical equipment when planning the loop system.
- Proceed to clause 2.

2. INSTALLATION

Mount the amplifier

in a 19"-rack.

IMPORTANT!

The amplifier must have free access to normal room temperature. If the amplifier is to be mounted on a wall, the 6 rubber feet attached shall be mounted. The amplifier can be mounted horizontally.

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** och **M** on the rear panel. See page 4 for balanced/unbalanced connections. The inputs "IN1-3" can be set to different sensitivities according to table. If you need to set IN1-3 otherwise than default, remove the cover and set the switches S1-20 according to table at page 4.

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Default settings

IN1 = Microphone level, at input signal IN1 overrides IN3.

IN2 = Line level, no priority function.

IN3 = Line level, IN3 is overrided if input signal is present at IN1.

Input-AGC

The AGC-function for inputs IN1-3 can be disabled by setting the switch S18 according to table on page 4.

Connect Line Outputs

Univox PLS-700 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-700 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 **A1-3** on the front panel emitting at the peaks of the program signal source (AGC knee).

Increase

the Loop Current trimmer **G** until the first LED **B** on the front panel lits 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 – IMPORTANT!

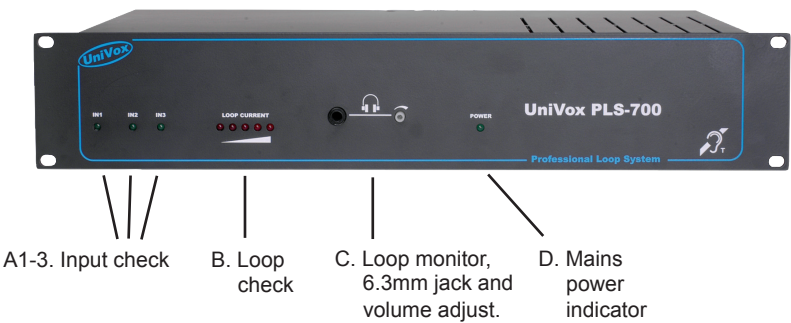
Adjust the amplifier

following "The Univox Way" for certification according to IEC-60118-4 using a field strength meter, like the Univox FSM 2.0. Univox FSM follows the standard of Sound Meter with correct integration time and true RMS measurement.

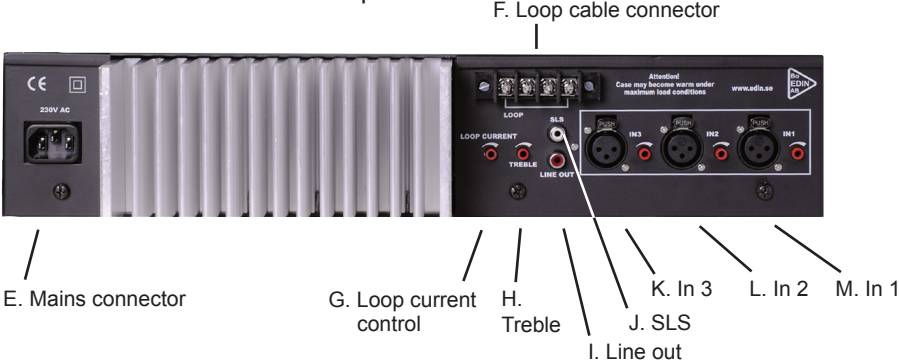
5. INFORM PEOPLE RESPONSIBLE FOR THE LOOP SYSTEM

how to use the system. Recommend a listening device for a daily basic check of the loop system. Univox Listener is a high quality listening device with built-in level check.

Univox® PLS-700 Front panel



Univox® PLS-700 Rear panel



Recommended minimum loop area for Univox® PLS-700 when installed to an existing perimeter loop system

Loop area m²	Wire area 1-turn-loop	Wire area 2-turn-loop
>300	>=5mm²	Not recommended
150-300	>=4mm²	2x2.5mm²
70-150	Not recommended	2x2.5mm²
20-70	Not recommended	2x2.5mm²



Univox® FSM 2.0
Field Strength Meter
Part No 401040



Univox® Listener
Loop testing device
Part No 401010