

Commissioning

The process for commissioning a loop system to the IEC performance standard, IEC 60118-4, can be found in the user guide for the Univox FSM 2.0 field strength meter, on the Univox® Certificate of Conformity or in the equipment Logbook, if supplied. These documents are also available on our websites.

1. Set the loop current to minimum by setting the control fully anti-clockwise.
2. Connect the test signal source to the appropriate input.
3. Adjust the input level to the point at which the red, +12 dB LED flickers sporadically in sympathy with the highest signal peaks. Where a 1 kHz sine wave signal is used the level should be adjusted to 0 dB LED indication.
4. Follow the commissioning process.

General Notes

To listen to the sound quality, use high quality headphones with the FSM 2.0 or Univox® Listener loop receiver.

The 'Monitor' Output socket is a direct reflection of the loop signal current (volume control on rear panel). The sound quality can be easily assessed at this point in the audio chain aiding set up and problem solving.

When operating at maximum output on some loop types the automatic limit protection circuit may cut programme peaks. To rectify, reduce the loop current accordingly.

To adjust the frequency response of the system use the 'Parametric MLC'. The degree of compensation is adjusted with the potentiometer and the start or break frequency is determined by the 4 position switch marked: 100 Hz, 500 Hz, 1 kHz, 2 kHz. Start with the break frequency set to 2 kHz and adjust the level. If this is not sufficient, move to the next lower frequency and repeat as required.

Quick Installation Guide

Univox® PLS-X1, X3 and X5
Induction Loop Drivers

Package contents

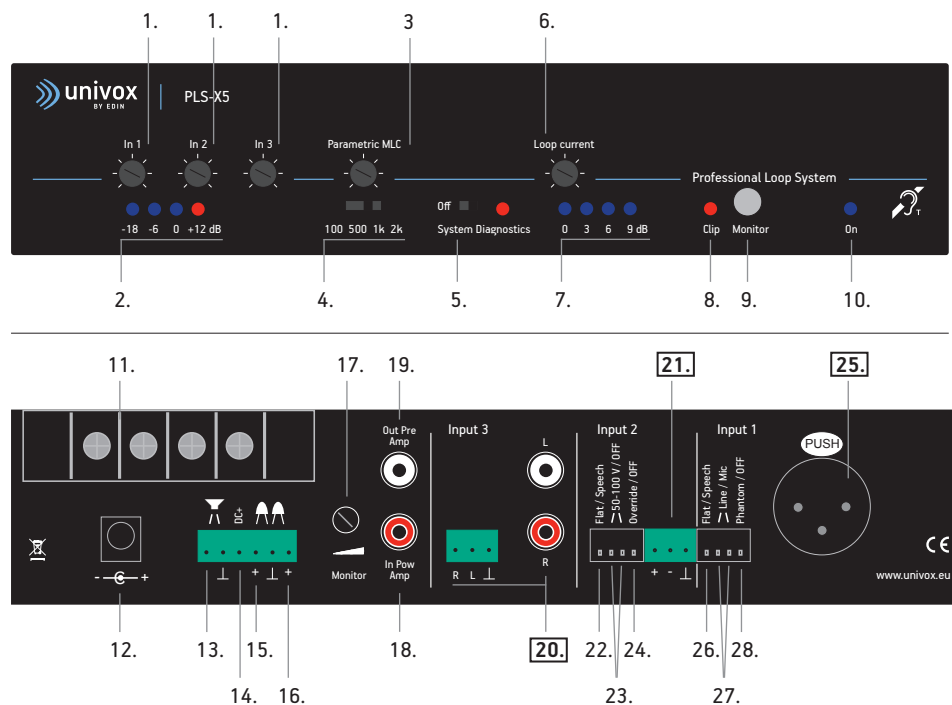
The X series package contains the following components:

- Loop driver
- DC Power Supply
- Power cable
- Three pieces of phoenix screw terminals
- Four pieces of rubber feet
- T Sign
- Rack mounting plate with 8 screws
- DC Power supply mounting plate with 4 screws (including two pieces of 3M Scotchmate that can be used to fix the power supply to the mounting plate)
- Measuring protocol/certificate
- Quick Installation Guide

For Complete Installation Guide please download from www.univox.eu or use QR code.



Connections and controls



- | | |
|-------------------------------------|---|
| 1. Input Level Control | 16. Remote Output Monitor Connector |
| 2. Input Level LEDs | 17. Monitor Volume Control |
| 3. Parametric MLC Control | 18. Input Power Amplifier (In Pow Amp) |
| 4. Parametric MLC Knee Point Switch | 19. Output Pre-amplifier (Out Pre Amp)+ |
| 5. System Diagnostics Switch | 20. Input 3 (Phoenix Screw Terminal/RCA) |
| 6. Loop Current Control | 21. Input 2 (Phoenix Screw Terminal) |
| 7. Loop Current LEDs | 22. Speech Enhancement DIL Switch (Flat/Speech) |
| 8. Voltage Clipping/Peak LED | 23. 50-100 V Line DIL Switch On/Off |
| 9. Loop Monitor Jack | 24. Override DIL Switch On/Off (Input 3) |
| 10. Power LED | 25. Input 1 (Balanced XLR) |
| 11. Loop Terminals | 26. Speech Enhancement DIL Switch (Flat/Speech) |
| 12. DC Supply Jack | 27. Line/Mic Sensitivity DIL Switch |
| 13. Monitor Speaker Connector | 28. Phantom Power On/Off |
| 14. Auxiliary DC Power Output | |
| 15. Remote Input Monitor Connector | |

Installation

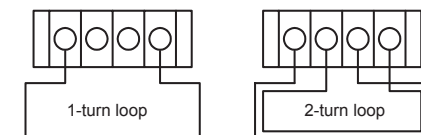
1. Place the loop driver in a suitable location. There are three placement options for the PLS-X series drivers:

- In a 19" rack
- Hung on a vertical surface using the keyholes in the base of the unit
- On a flat level surface on the units rubber feet

Note

No ventilation space in the rack is required. When placed on flat surfaces the little space given by the rubber feet is sufficient.

2. Connect the loop cable to the loop driver using the Loop Terminals (11) as shown in figure.



3. Connect the power supply, first to the loop driver's DC Supply Jack (12) and then to the wall outlet. The Blue 'power On' LED (10) will illuminate.

4. Turn System Diagnostics (5) on by sliding the switch to the right. The Input Level LEDs (2) will begin to blink.

5. Adjust the loop current. Depending on the adjusted current level, 1, 2, 3 or 4 output current LEDs will blink in unison.

6. Set the current to achieve a field strength of the peaks to approximately -3 dB in the center of the loop.

The system is functioning correctly and is ready for commissioning in accordance with the IEC performance standard IEC 60118-4.

7. Turn System Diagnostics (5) off, by sliding the switch to the left.

Default Settings

Rear panel

Monitor Control; Set fully anti-clockwise (factory default)

Input 1

Flat/Speech; DOWN (= speech enhancement off)
Line/Mic; DOWN
Line/Mic; DOWN
Phantom/off; UP (= phantom power off)

Input 2

Flat/Speech; DOWN (= speech enhancement off)
50-100V/off; UP
50-100V/off; UP
Override/off; UP (= override off)

Front panel

All level controls are set to minimum (turned fully anti-clockwise).
System Diagnostic (5) = Off (switch in left position).
Parametric MLC (3,4) = 2 kHz (switch in right position).