Applications
Univox PLS-X3 is suitable for small theatres, waiting areas, conference facilities and medium sized rooms.

Space and power efficiency
PLS-X series is the most efficient professional loop drivers available. The units are only 1U high and ½ widths, making it possible to mount two drivers in one single 19” rack mount. Univox PLS-X series uses a 90 % efficient electronic transformer. Energy waste in a conventional power supply is comparably 8-9 times higher. Weight is reduced by use of significantly less copper and other metals than conventional loop drivers, leaving a much smaller carbon footprint. PLS-X loop drivers produces an amazingly clear sound which is not possible using conventional toroid transformers as modulation distortion is unavoidable.

The self-diagnostic system
When activated, input connection, AGC, pre and power driver and consistency of loop conductor will be diagnosed. The diagnostics will indicate which systems are operational and which are not. The built-in signal generator, which is part of the self-diagnostic system, can be used to set just the output level if another signal source is not available.

Enhanced metal compensation
Univox PLS-X’s are equipped with a unique Parametric MLC (Metal Loss Correction) to fine tune for the effects of metal loss. It allows the installer to further compensate for metal attenuations effects and not just simply by increasing level from one default frequency. See graph.
Technical data

**Induction Loop Output RMS 125 ms**
- Max Drive Voltage: 31 Vpp/11 Vrms
- Max Drive Current: 6.5 Arms

**Power**
- Power supply: 110-240 VAC primary switched class VI electronic power supply
- Power consumption: Idle current 125 mA
- Program material: 30 W@1.10 Ohm impedance load

**Back panel interface**
- Input 1: Balanced XLR
  - Programnable Bass Cut Filter@150 Hz - Speech/Flat, Line/Mic, Phantom Power +12 VDC On/Off
  - Sensitivity: -50 dBu (2.5 mVrms) to +10 dBu (2.6 Vrms)
- Input 2: Balanced Phoenix Screw Terminal Block
  - Dip switch programmable: Low Cut Filter@150 Hz - Flat/Speech, line/50-100V connection On/Off, Override On/Off (Input 3 signals higher than -6 dB above AGC-knee overrides all other input signals)
  - Line sensitivity: -15 dBu (50 mVrms) to +20.6 dBu (8.3 Vrms)
- Input 3: Unbalanced RCA and Phoenix Screw Terminal Block
  - Sensitivity: -24 dBu (30 mVrms) to +16.2 dBu (5 Vrms)
- Out Pre-amplifier: Buffered output to connect multiple drivers
- In Power-amplifier: Input for connecting multiple drivers
- Monitor control: Recessed trim potentiometer for 10W speaker and 3.5mm front panel headphone output
- Monitor connection: Phoenix Screw Terminal Block
  - 10W speaker monitor output; 24V power output; Remote LED diagnostic output

**Front panel interface**
- Input 1-3: 4 LED indicators (-18 dB to +12 dB), recessed trim potentiometers
- Metal loss control: Switchable frequency knee point (100 Hz, 500 Hz, 1 kHz, 2 kHz)
- System Diagnosis: Adjustble gain slope from 0 to 4 dB/octave
- Loop Current Control: Recessed trim pot; 4 LED output level indicator (0-9dB)
- Peak / Clipping: LED indicates if signal is peaking/clipping
- Monitor: 3.5 mm jack to monitor loop with headset
- Power indicator: LED indicates correct power connection

**Other Systems and Functions**
- Frequency response: 75-6800 Hz
- Distortion: < 1%
- Dual Action AGC: Dynamic Range: > 50-70 dB (+1.5 dB)
  - Attack time: 2-500 ms, Release time: 0.5-20 dB/s
- Cooling: Internal cooling element

**Physical**
- Size: ½ width 1U 19” rack mount
  - Width 210 mm, Depth 255 mm, Height 44 mm
- Mounting options: 1U 19” rack mount (brackets included);
  - Wallmounted or Freestanding
- Weight: 1.5 kg
- Weight incl. power supply and box: 2.50 kg
- Part No: 217300

Product is designed to meet the system requirements of IEC60118-4, when correctly designed, installed, commissioned and maintained. Specification data complied according to IEC62489-1.

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**Accessories and tools**

**Univox Listener**
This easy to use loop listener indicates field strength levels of 400 mA/m and 200 mA/m in accordance with IEC 60118-4. It is an essential tool for the facility manager as well as an alternative assistive listening device for the Hard of Hearing.

**Univox FSM Basic**
A calibrated precision measurement device, designed for measuring the performance of hearing loops. The meter enables easy and straightforward assessment of background noise, field strength and frequency response of the system to comply with the requirements of IEC 60118-4.

**Copper foil**
This insulated copper foil is only 0.25 mm thick and is easily concealed under most floor finishes. It is ideal for multi loop and Super loop installations.

**Univox Loop Designer**
Univox Loop Designer is a tool to aid in the design of Hearing Loop Systems in accordance with the International Induction Loop System performance standard IEC 60118-4.