The Univox Super Loop System Class D Tech series is based on groundbreaking, fully complementary, multiple class D stages. The high efficiency design has resulted in a series of loop drivers considerably smaller and lighter than their predecessors, with enhanced output power optimized for modern Super Loop (phased array) system design. The combination of Univox technology, electronic transformers and silent fan free operation delivers unsurpassed loop drivers with high audio quality. The advanced and adaptive real time current, temperature and power protection makes SLS-series virtually indestructible with any load or short-circuit.

The self-diagnostic system

When the self-diagnostic is activated, input connection, AGC, pre-amp and power driver and integrity of the loop conductor, will be accessed. The diagnostics will indicate which systems are operational and which are in need of adjustment. The built-in signal generator, which is part of the self-diagnostic system, can also be used to set the output level.

Enhanced metal loss compensation

Univox SLS Class D Tech series is equipped with a unique Parametric MLC (Metal Loss Compensation) control, enabling fine tuning for different metal loss effects. It allows the installer to further compensate for metal attenuation effects and not just simply by increasing the level from one default starting frequency.

Coverage Area in m²/ ft²

<table>
<thead>
<tr>
<th>Loop</th>
<th>No Metal Loss</th>
<th>Moderate Metal Loss</th>
<th>High Metal Loss</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Max coverage</td>
<td>Low overspill</td>
<td>Max coverage</td>
</tr>
<tr>
<td>SLS-1</td>
<td>600/6500</td>
<td>275/2900***</td>
<td>250/2700*</td>
</tr>
<tr>
<td>SLS-3</td>
<td>1200/13000</td>
<td>550/5900***</td>
<td>500/5400*</td>
</tr>
<tr>
<td>SLS-5</td>
<td>2000/21500</td>
<td>700/7500***</td>
<td>750/8000*</td>
</tr>
</tbody>
</table>

Recommended max. segment width:
* max 7m/22ft
** max 4m/13ft
*** max 2m/6.7ft
### Induction Loop Output RMS 125ms

<table>
<thead>
<tr>
<th></th>
<th>Univox SLS-1</th>
<th>Univox SLS-3</th>
<th>Univox SLS-5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max Drive Voltage</td>
<td>27Vpp</td>
<td>38Vpp</td>
<td>50Vpp</td>
</tr>
<tr>
<td>Max Drive Current, each channel</td>
<td>2 x 4.5Arms</td>
<td>2 x 6Arms</td>
<td>2 x 7.5Arms</td>
</tr>
<tr>
<td>Peak current using (EHIMA) speech</td>
<td>2 x 10.6App</td>
<td>2 x 15App</td>
<td>2 x 18App</td>
</tr>
</tbody>
</table>

### Power

- **Power supply**: 110-240VAC primary switched class V electronic power supply.
- **Enhanced power connection** with 4-pin DIN power connector.

### Back panel interface

#### Input 1
- Balanced XLR
- Dip switch programmable: Low Cut Filter@150Hz - Flat/Speech; Line/Mic; Phantom Power +12VDC On/Off
- Sensitivity: -55dBu (1.5 mVrms) to +10dBu (2.6Vrms)

#### Input 2
- Balanced Phoenix Screw Terminal Block
- Dip switch programmable: Low Cut Filter@150Hz - Flat/Speech; Line/50-100V connection On/Off; Override On/Off (input 3 signals higher than -6dB above AGC-knee overrides all other input signals)
- Line sensitivity: -15dBu (50mVrms) to +20.6dBu (8.3Vrms)

#### Input 3
- Unbalanced RCA or Phoenix Screw Terminal Block
- Sensitivity: -24dBu (30mVrms) to +16.2dBu (5Vrms)

#### Monitor control
- Recessed trim potentiometer for 10W speaker and 3.5mm front panel headphone output

#### Monitor connection
- Phoenix Screw Terminal Block
- Speaker monitor output; 24V power output; Remote computer or LED diagnostic output

### Front panel interface

#### Input 1-3
- Recessed trim pots; 4 LED input level indicator (-18dB to +12dB)

#### Parametric Metal Loss Control
- Recessed trim pot, adjustable gain slope from 0 to 4 dB/octave; Switchable frequency knee point (100Hz, 500Hz, 1kHz, 2kHz)

### System Diagnostics
- Checks Input connection, AGC, Pre and Power driver and Loop conductor with a pulsed 1kHz signal (built-in signal generator)
- On/Off switch to operate system, single LED indication

### Loop Current Control
- Recessed trim pot; 4 LED output level indicator (0-9dB)

### Peak indicator
- LED indicates clipping due to voltage saturation

### Monitor output
- 3.5mm jack to monitor loop with headphones

### Power indicator
- LED indicates correct connection to power supply

### Other Systems and Functions

#### Frequency response
- 75-6800Hz

#### Distortion, Power Loop Driver
- < 0.05%

#### Distortion, system
- < 0.15%

#### Dynamic Range
- > 50-70dB (+1.5dB)

#### Attack time
- 2-500ms, Release time: 0.5-20dB/s

#### Cooling
- Fan free convection cooling (chassis cooling)

#### IP class
- IP20

### Physical

- **Size**: 1U/19' rack mount
- **Width**: 430mm, **Depth**: 150mm, **Height**: 44mm (incl. rubber feet)
- **Weight (net/gross)**: 1.9/2.65kg, 1.9/3.55kg

### Mounting options
- Rack mount (brackets included), wall mount or freestanding (rubber feet pre-mounted)

### Part No
- 221000, 223000, 225000

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**The User Guide, Installation Guide and Certificate of Conformity are available on univox.eu**

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### Accessories and tools

**Univox Listener**

This easy to use loop listener indicates field strength levels of 0dB and -6dB 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 2.0**

Engineered for simplicity, the Univox FSM 2.0 is a microprocessor controlled field strength meter featuring a simple 5 step programme for commissioning loop systems to the performance standard IEC 60118-4.

**Copper tape**

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

**Printed warning tape**

Univox warning tape to be used for protection and warning of the copper tape cables. The tape is available in two widths – 50mm and 75mm.

**Univox Loop Designer**

ULD 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.