



Univox® SLS-400 XF

Hearing loop system with HiFi quality
and 3D controlled overspill

Features

- Minimum overspill
- Even magnetic field without level and/or frequency drop in the middle of the room
- No level drop when head is tilted (in one direction)
- Low impact from reinforced concrete or other construction metal
- Reduced risk of magnetic feedback
- Low idle current consumption
- High efficiency
- Strongly enhanced high frequency response
- Combined programmable 6.35/XLR and 2xRCA connectors
- 19" rack mounting unit with matching constant current amplifiers
- 6.35mm speaker/earphone jack
- Suitable for new construction/rebuilding of theatres, cinemas, concert halls, schools, conference rooms, homes for the elderly etc.

Univox® SLS – Super Loop System® is target designed for professional installations in venues where high sound quality, very high reproducibility together with extremely low overspill in all directions are important requirements. With the Univox® SLS system the magnetic field is controlled in three dimensions producing different levels at different heights. This makes it possible to reach field strengths complying with the IEC standard for standing and sitting positions or to cover a mobile seating section with different heights.

The system is a fully balanced 2-layer loop system resulting in incredible smooth field strength even at high frequencies which is vital for high speech intelligibility. Furthermore the balanced field strength concept, as all balanced systems, almost totally cancels out normal interference problems with audio/video installations, for example microphones and video projectors. The common interference problem with reinforcements and other metallic structures is strongly reduced thanks to the opposite phase system. All these technological details result in a reliable and predictable installation.

This second generation of Univox® SLS series of amplifiers continues to build on two separate loop configurations, but they are connected to one 19" rack mounted unit with matching power amplifiers. Lower distortion and an increased output voltage enhance the dynamics substantially, especially in the treble area (beyond 10kHz!). The result is a hearing loop system with HiFi sound quality for the hearing aid users!

Univox® SLS-400 XF is most suitable for new construction/rebuilding of theatres, cinemas, conference buildings, schools etc. If correctly planned, installed and set up, Univox® SLS fulfills the requirements in IEC 60118-4.



Technical data

Mains power		220-240V AC 50Hz, 25-700W (2x150VA), 10A group fuse required
Coverage area		150-1800m ² according to IEC 60118-4, 1-turn loop, free field
Two separate loop outputs	<i>Max. current</i>	2x60App, 1-5ms, 1kHz, short circuit 2x13A RMS, continuous 1kHz signal, short circuit
	<i>Max. voltage</i>	2x47Vpp
	<i>Output AGC</i>	For voltage and current. If continuous signals occur (self oscillation or sine wave tones), the output level is reduced with approx. 10dB after 0.6-1 sec. Pulses and normal program signals are not reduced
	<i>Frequency response</i>	70-10,000Hz (±3dB), up to 16kHz using Univox 25mm wide flat copper foil
	<i>Distortion</i>	<1%
	<i>Connection</i>	Loop wires are connected to two screw terminals (rear panel)
	<i>Short circuit protection</i>	100% short circuit protection, constant current down to 0 Ohm; Internal excessive current and temperature protection with auto-reset
SLS outputs	<i>Master Out</i>	0dBm white RCA connector, with AGC function (rear panel)
	<i>Slave Out</i>	0dBm red RCA connector, with AGC function (rear panel)
Speaker/ Headphones output		Magnetic field from Master and Slave loop can be monitored by either speaker or headphones through 6.35mm jack (front panel), separate volume controls
	<i>Frequency response</i>	Same as for loop outputs, 70-10,000Hz (±3dB)
Inputs	<i>In 1</i>	Combined XLR/6.35mm connector (rear panel) Mic sensitivity 2.5mV-10V RMS/10kOhm, phantom power 9-20V or Line sensitivity 37mV-10V RMS/10kOhm (factory default)
	<i>In 2</i>	Double RCA connectors (rear panel), 45mV-10V RMS/10kOhm
Dual action AGC	<i>Working range</i>	>70dB
	<i>Attack time</i>	2-500ms
	<i>Release time</i>	0.5-20dB/s
	<i>Remark</i>	Attack and decay times depend on which channel is active
Controls	<i>Loop current</i>	Coverage area is dependent on loop configuration: 0-300m ² , Master and Slave potentiometers (rear panel)
	<i>Input level</i>	In 1 and In 2 have separate input level potentiometers (rear panel)
Indications	<i>Mains power</i>	Power, blue LED, indicates if properly connected to mains power (front panel)
	<i>Input signal level</i>	In, blue LED, indicates correct input level, i.e. if AGC is activated (front panel)
	<i>Loop current</i>	Loop, 2 blue LED:s (Master/Slave), indicates if current floats in loop (front panel)
Physical	<i>Dimensions</i>	440x88x285mm (WxHxD) / 2U, 19" standard size for rack mounting
	<i>Weight</i>	7.3kg
	<i>Cooling</i>	Fan free convection cooling
	<i>Environment</i>	IP20, 10 to 35°C
Part No		215400 Univox SLS-400 XF

Accessories

Part No	Description	Part No	Description
230450	Univox Listener loop receiver/test instrument	401010	FSM 2.0
230453	Univox Listener loop receiver/test instrument, incl. light weight head phones		Field strength meter, professional measurement system

For complete manual and certificate, please refer to univox.eu.

