Univox® SLS-1/3/5

Class D Tech series State of the art phased array loop drivers

Features

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- Fully complementary and balanced system based on multiple class D stages for highest dynamic performance
- Exceptionally high efficiency
- Unique Parametric MLC for comprehensive metal loss compensation
- Built-in System diagnostics to isolate system errors
- Advanced real time protection circuit
- 50-100V input
- Programmable XLR, RCA and screw terminal input connectors
- Crest factor based Dual Action AGC for unsurpassed intelligibility
- High switching frequency 400kHz-1MHz for low interference
- Low frequency masking filter for voice enhancement
- Butterworth 24dB/octave low pass filter for effective noise blocking between equipment
- Priority Voice alarm system input
- Fan free convection cooled for silent reliable
 operation
- Monitor speaker output
- Front panel controls for easy access
- Recessed controls to prevent tampering
- ULD supported for easy project planning
- Extremely low carbon footprint
- Full width 1U 19" rack mount to save rack space
- 5 year warranty

Coverage Area in m²/ ft²

Power efficiency and supreme audio quality

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

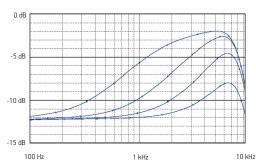
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When the self-diagnostic is activated, input connection, AGC, pre-amp and power driver and integrity of the loop conductor, will be accessed. The diagnostics will indicate which systems are operational and which are in need of adjustment. The built-in 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,

Loss Lompensation) 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.



Loop	No Metal Loss		Moderate meta	ıl Loss	High Metal Los	S	Recommended max.
	Max coverage	Low overspill	Max coverage	Low overspill	Max coverage	Low overspill	segment width:
SLS-1	600/6500	275/2900***	250/2700*	150/1600***	Not reco	mmended	* max 7m/22ft
SLS-3	1200/13000	550/ <i>5900***</i>	500/5400*	300/ <i>3200</i> ***	300/ <i>3200</i> **	200/2150**	** max 4m/13ft
SLS-5	2000/ <i>21500</i>	700/7500***	750/8000*	400/4300***	400/4300***	250/ <i>2700</i> ***	*** max 2m/6.7ft

Hearing excellence since 1965



Technical data SLS Class D Tech series



	Univox SLS-1	Univox SLS-3	Univox SLS-5			
Induction Loop Output RMS 125m	IS					
Max Drive Voltage	27Vpp/9.6Vrms	38Vpp/13.5Vrms	50Vpp /17.7Vrms			
, Max Drive Current, each channel	2 x 4,5Arms	2 x 6Arms	2 x 7.5Arms			
Peak current using (EHIMA) speech	2 x 10.6App	2 x 15App	2 x 18App			
Phantom power	+18VDC	+18VDC	+24VDC			
Power						
Power supply	110-240VAC primary switched class VI electronic power supply;					
Power consumption, idle current	170 mA	170 mA	200 mA			
@1.10 0hm impedance load Back panel interface	20 W	30 W	50 W			
Input 1	Balanced XLR					
	Dip switch programmable: Low Cut Filter@150Hz - Flat/Speech; Line/Mic; Phantom power 0n/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 0n/0ff; 0verride 0n/0ff (Input 3 signals higher than -6dB above AGC-knee overrides all other input signals)					
	Line sensitivity: -23	dBu (50mVrms) to +20).6dBu (8.3Vrms)			
Input 3	Unbalanced RCA or Phoenix Screw Terminal Block					
	Sensitivity: -28dBu (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 indi	cator (-18dB to +12dB)			
Parametric Metal Loss Control	Recessed trim pot, adjustable gain slope from 0 to 4dB/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 1.6kHz signal (built-in signal generator)					
	On/Off switch to ope	erate system, single LE	D indication			
Loop Current Control	Recessed trim pot; 4	ecessed 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%					
Dual Action AGC	Dynamic Range: > 50-70dB (+1.5dB) Attack time: 2-500ms, Release time: 0.5-20dB/s					
Cooling IP class	Fan free convection cooling (chassis cooling) IP20					
Physical						
Size	1U/19" rack mount					
	Width 430mm, Dept	h 150mm, Height 44n	nm (incl. rubber feet)			
Weight (net/gross)	1.9/2.65kg	1.9/3.55kg				
Mounting options	Rack mount (bracke	ts included), wall mou unted)	int or freestanding			

Dout N-

Part No

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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(rubber feet pre-mounted)

Accessories and tools

Univox Listener

This easy to use loop listener indicates field strength levels of OdB 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 Basic

Univox[®] FSM Basic is a calibrated measuring device, enabling assessment of background noise, field strength and frequency response of the system to comply with the requirements of IEC 60118-4.



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

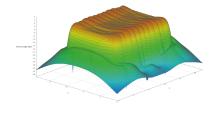
Univox warning tape to be used for protection and warning of the copper tape cables. The tape is available in two widths – 50mm and 75mm.



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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.



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

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