Univox® 7-Series

High Efficiency Linear Technology

Features

- Dante PoE input for additional network audio (option)
- High dynamic performance through linearized switching
- High power – 100 Vpp & 20/2x10 Arms
- Parametric metal loss compensation
- Built-in system diagnostics
- Fan-free convection cooling
- Automatic safe mode
- 50-100 V high voltage speaker input
- High slew rate audio IC internally used
- Fast-action AGC with an exceptional constant and stable linear output
- Low frequency masking filter – voice enhancement
- Voltage peak indicator
- Fault monitor indication LED
- ULD supported for easy project planning
- 5-year warranty

High efficient linearized switching loop amplifier

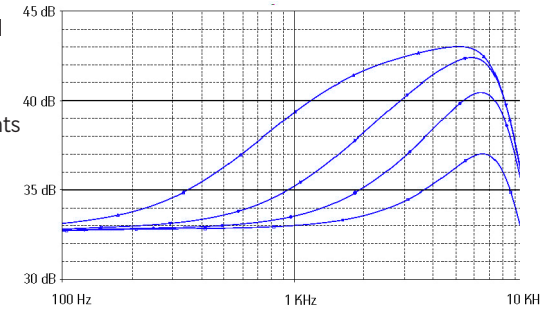
Univox PLS-7 and its phased array sibling SLS-7 are powerful induction loop amplifiers designed for very large-area loop installations. PLS-7 delivers up to 100Vpp/20 Arms while the SLS-7 drives up to 100 Vpp and 10 Arms per channel. With wide dynamic response from complementary balanced outputs, PLS/SLS-7 drivers provide excellent dynamics with top audio quality. Our ground-breaking filter bank eliminates any Class-D associated non-linearity or interference. Due to la Class-D low heat dissipation, the drivers claim no extra ventilation space in your AV-rack. Developed on Univox linear switching technology, with electronic transformers and fan-free design, PLS-7 and SLS-7 are two new long-life reliable products from Univox.

Intelligent system monitoring

Apart from the self-diagnostic system, PLS/SLS-7 features continuous monitoring of the input and output logic, warning for any inconsistency within the loop function. A built-in output relay allows for easy connection to a smart mixer or a monitor computer.

Enhanced metal loss compensation

Univox PLS/SLS linear tech series is equipped with a unique Parametric MLC (Metal Loss Compensation) control, enabling system frequency response correction in environments where the signal strength is strongly influenced by the surrounding metal.



Coverage

PLS-7	Free Field	Moderate metal loss*	High metal loss**
1:1 ratio	Approx. 600 m^2***	Approx. 50 m^2***	Not recommended
1:2 ratio	Approx. 1.200 m^2 ***	Approx. 100 m^2 ***	Not recommended
Figure 8	Approx. 4.200 m^2	Approx. 2.300 m^2	Approx. 1.000 m^2

SLS-7	Free Field	Moderate metal loss*	High metal loss**
Max coverage	Approx. 4.200 m^2	Approx. 2.000 m^2	Approx. 1.000 m^2
Low spill****	Approx. 1.200 m^2 ****	Approx. 100 m^2 ****	Not recommended

* 4.5 dB attenuation, max 7 m loop segment width

** 8 dB attenuation, max 4 m segment width

*** Larger coverage area is limited by the max 6 dB field strength variation stated by IEC 60118-4

**** SLS standard loop design (2m wide loop segments with2 cancellation segments)

Dante™

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Technical specifications

	Univox PLS-7	Univox SLS-7
Induction Loop Output RMS 125 ms		
Max drive voltage	100 Vpp	100 Vpp
Max drive current	20 Arms	2x10 Arms
Power		
Power supply	110-240 VAC primary switched class VI electronic power supply	
Back panel interface		
Input 1	Balanced XLR	
	Dip switch programmable: Low Cut Filter@150 Hz - Flat/Speech;	
	Line/Mic; Phantom Power +12 VDC On/Off	
	Sensitivity: -55 dBu (1.5 mVrms) to +10 dBu (2.6 Vrms)	
Dante	Dante RJ45 Ethernet input PoE (option)	
Input 2	Balanced Phoenix Screw Terminal Block	
	Dip switch programmable: Low Cut Filter@150 Hz - Flat/Speech; Line/50-100 V 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 or Phoenix Screw Terminal Block	
	Sensitivity: -24dBu (30 mVrms) to +16.2dBu (5 Vrms)	
Monitor control	Recessed trim potentiometer for 10 W speaker and 3.5 mm front panel headphone output.	
	Phoenix Screw Terminal Block	
Loop error	Speaker monitor output; 24 V power output; Relay output to mixer	
	Phoenix Screw Terminal Block	
Front panel interface		
Input 1-3	Recessed trim pots; 4 LED input level indicator (-18 dB to +12 dB)	
Parametric Metal Loss Control	Recessed trim pot, adjustable gain slope from 0 to 4 dB/octave;	
	Switchable frequency knee point (100 Hz, 500 Hz,1 kHz, 2 kHz)	
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 operate system, single LED indication	
Loop current control	Recessed trim pot; 4 LED output level indicator (0-9 dB)	
Peak indicator	LED indicates clipping due to voltage saturation	
Loop fault indicator	LED indicates error in loop function	
Temp indicator	Automatic safe mode activated	
Monitor output	3.5 mm jack to monitor loop with headphones	
Power indicator	LED indicates correct connection to power supply	
Other Functions		
Frequency response	75-6800 Hz	
Distortion, power loop driver	< 0.05 %	
Distortion, system	< 0.15 %	
Dual action AGC	Dynamic Range: > 50-70 dB (+1.5 dB)	
	Attack time: 2-500 ms, Release time: 0.5-20 dB/s	
Cooling	Fan free convection cooling	
IP class	IP20	
Size	1U/19 " rack mount. Width 430 mm, Depth 146 mm, Height 44 mm (excl. rubber feet)	
Weight (net)	2.30 kg	2.31 kg
Mounting options	Rack mount (brackets included), wall mount or freestanding (rubber feet pre-mounted)	
Part No	217700/217710 (Dante)	227000/227710 (Dante)

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

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