

# Quality

slimlined loop amplifier, with the Swedish concept: Health Care Products with long quality tradition combined with modern signal processing.



*Slimlined*

**UniVox® DLS-380!**  
One step ahead, with active signal processing on both the input and output stage

**Dual Action AGC!**

**Covers up to 170m<sup>2</sup>  
according to BS6083**

(Quadratic loop, 1.2 m above loop plane)

## FEATURES

The successor of the classical loop amplifiers UniVox® 38B/380 is here: **UniVox® DLS-380**, with many new improvements:

- √ Large safety margin, the power stage is overpowered with 25Amp transistors.
- √ 2 separate output AGC, controls both current and voltage (Power).
- √ Automatic net-fuse also protects faulty transformer.
- √ Less noise sensitivity, computer aided designed PCB.
- √ Unique Dual Action AGC with quick reaction without pump effects.
- √ 100% short circuit safe.
- √ Separate bass and treble controls, designed for loop systems.
- √ Microphone input for a simple connection to TV-sets without SCART connectors.
- √ Three separate inputs for a flexible installations.
- √ Doorbells with override and tone signalling on the loop.
- √ 3 LED indicates: mains, input level, output current (magnetic field).
- √ Very easy installation because of the in- and output AGC system.
- √ Same connections as the predecessors 38B/380, easy to exchange the amplifier in an old installation.
- √ Stable mechanical design, easy to dismount for repair.

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# Specifications UniVox® DLS-380

2004-01-20

<b>Power supply:</b>		230-240V AC 50Hz, 3.5-100W
<b>Area of coverage:</b>		170 m <sup>2</sup> (BS6083 part 4 & IEC 60118-4 with a squared loop, 1.2 m above floor level, no external magnetic influence.
<b>Loop Output:</b>	<i>Max current</i>	60App/1ms/1kHz, short circuit load. 17A RMS/10ms/1kHz. 12A RMS/125ms/1kHz.
	<i>Max Voltage</i>	10V RMS.
	<i>Output-AGC</i>	Controlled by voltage & current (power). The output voltage is reduced 10 dB after 0.6-1sec. Pulses and normal program signals are not interacted.
	<i>Frequency response</i>	80 - 6000Hz (±3dB)
	<i>Distortion</i>	<1%
	<i>Cable connection</i>	Screw terminal
<b>Inputs:</b>	<i>Input 1&amp;2</i>	7mV-10V (330 Ohm/150 kOhm)
	<i>Input3</i>	7mV-10V (10 kOhm, 7-pin-DIN-connector), for a direct connection to Scart connector. Also equipped with a phantom voltage (12VDC/30mA) suitable for a small preamplifier.
<b>Dual Action AGC:</b>		The Dual Action AGC works dynamically with different attack and decay times depending of the structure of the sound. The circuit works as limited (minimising high slew-rate noise, like door slams, pen drops on a table, etc. ) <b>AND</b> as a constant level holder (keeping the volume at the same level)
	<i>Dynamic range</i>	>70dB
	<i>Attack time</i>	2-500ms
	<i>Decay time</i>	0.5-20dB/s
<b>Trimmers::</b>	<i>Bass control</i>	0 - +12dB, trimmer inside unit.
	<i>Treble control</i>	0 - +9dB, trimmer inside unit.
<b>Indicator:</b>	<i>Mains Connection</i>	Yellow LED close to main input
	<i>Input level</i>	Red LED
	<i>Loop Current</i>	Green LED
<b>Output voltage supply:</b>		9-12V AC Max. 1.6A. Powering a door chime with an acoustic indication (strong tone generator with rich harmonics) disable the input signals while indicating.
<b>Dimensions</b>		214x142x55mm (LxWxH)
<b>Weight</b>		2kg
<b>Colour</b>		Light grey.
<b>Part-no</b>		<b>212010 (UNIVOX® DLS-380)</b>

<b>NOTE:</b>	No Scart on TV-set?	Use the 13A microphone part-no: 242405, with double adhesive Welcro for mounting on loudspeaker front galler.
	<i>Screw terminal</i>	Jackable, easy mounting remounting.  Please observe that input 3 is designed to work only as microphone attached to loudspeaker front.

## Recommended loop data:

\* = Best results

Loop area m <sup>2</sup>	Cable area 1-turn loop	Cable area 2-turn loop
75-170	>= 3 mm <sup>2</sup> *	-----
50-75	>= 1.5 mm <sup>2</sup>	>= 2x1.5 mm <sup>2</sup> *
35-50	>= 1 mm <sup>2</sup>	>= 2x1.5 mm <sup>2</sup> *
<=35	>= 0.75 mm <sup>2</sup>	>= 2x0.75mm <sup>2</sup> *

### Options:



**284018**, AutoScart always gives the right sound to the loop when viewing with different external devices (VCR/satellite/digitalbox). Connects between TV-set and external devices. Powered by the loop amplifier through internal connector.



**242405 13AD**, Microphone with Welcro-adhesive, attaches to the loudspeaker, if TV-set is missing SCART-connector. Fits directly to input 3.



**284011**, Scart male, open wire, 5m, monoconfigured. Attached to loop amplifier with screw terminal.



**284012**, Scart male, 5-pin-DIN male, stereo. Fits directly to input 3.

**286005**, Transformer, converts 50/100V-line level to input low level line.