

# Quality

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



*Slimlined*

**UniVox® 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 38B is here: **UniVox® 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 predecessor 38B, easy to exchange the amplifier in an old installation.
- √ Stable mechanical design, easy to dismount for repair.

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# Specifications UniVox® 380

|                               |  |  |
|-------------------------------|--|--|
| <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.<br>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)   |
| <b>Inputs:</b>                | <i>Distortion</i>  | <1%  |
|                               | <i>Cable connection</i>  | Screw terminal   |
|                               | <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>Artikelnummer</b>          | <b>212010 (UNIVOX® 380)</b>  |  |

**NOTE:** No Scart on TV-set? Use the 13A microphone art-nr 242405, with double adhesive Welcro for mounting on loudspeaker front galler.

Screw terminal 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.