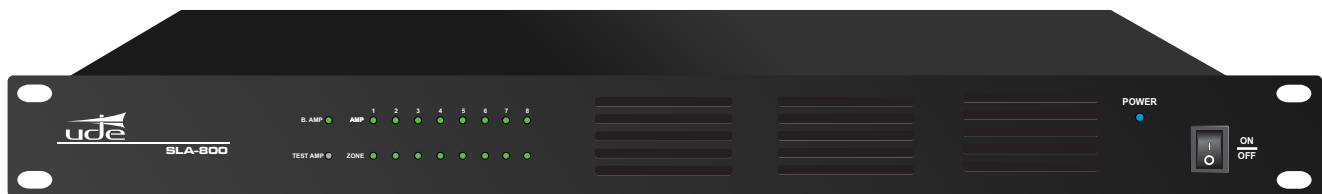


## 8 Channel amplifier supervisor with speaker line surveillance

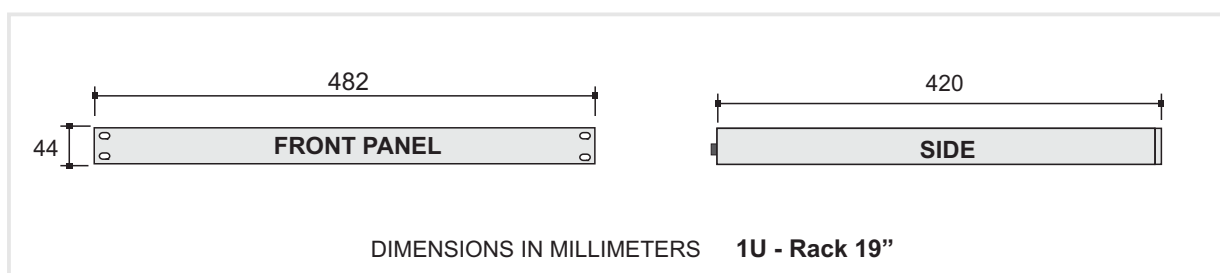


### Main characteristics

- 8 channel amplifier supervisor with loudspeakers line surveillance
- 1U 19" rack mount design
- Backup amplifier activation in less than 1 second
- 8 loudspeakers line supervision for open circuit, crossed circuit and impedance fluctuation.
- Time detection zone loudspeakers
- Failure in amplifier or loudspeaker notified by LED, buzzer and fault output
- 8 indicators in amplifiers. Stand by indicator and 8 loudspeaker line indicators
- Start and calibration of each amplifier and configuration loudspeakers line via front panel button
- 8 balanced line inputs and 8 balanced line outputs
- 8 100V Line amplifier inputs and 8 zones 100V line outputs
- Switch to enable or disable supervision
- Automatic or manual monitoring system
- Two loudspeakers impedance surveillance options
- Scalable from 8 up to 192 zones
- 24v DC Power Supply

## Technical characteristics

<b>Model</b>	SLA-800
<b>Description</b>	8 Channel amplifier supervisor with speaker line surveillance
<b>Channels</b>	8 channels
<b>Connections</b>	<ul style="list-style-type: none"> <li>- 8 balanced input lines, via Euroblock connector</li> <li>- 8 balanced output lines, via Euroblock connector with override relay outputs</li> <li>- 8 L100V input lines, via Euroblock connector</li> <li>- 8 L100V output lines, via Euroblock connector</li> <li>- 1 contact failure output, via Euroblock connector</li> </ul>
<b>Configuration (DIP switch)</b>	<ul style="list-style-type: none"> <li>- System surveillance cycle switch</li> <li>- Selection of tolerance level 10% or 20% in speaker line supervision</li> </ul>
<b>Impedance</b>	1V / 10K $\Omega$
<b>Pilot zone frequency</b>	20 KHz ( $\pm 5\%$ )
<b>Line detection</b>	50V / 70V / 100V Loudspeakers line
<b>Detection level</b>	5Vrms mín
<b>Amplifier failure detection time</b>	Less than a second
<b>Loudspeakers failure detection time</b>	Less than 2 seconds for each loudspeakers zone
<b>Backup amplifier changeover time</b>	Less than a second
<b>Maximum current</b>	500W max (L100V)
<b>Maximum current charge</b>	8A
<b>Power supply</b>	24VDC / 2A max. via Euroblock connector (Power supply not included)
<b>Dimensions</b>	482 (L) x 420 (P) x 44 (H) mm
<b>Weight</b>	3,2 Kg



## Front panel

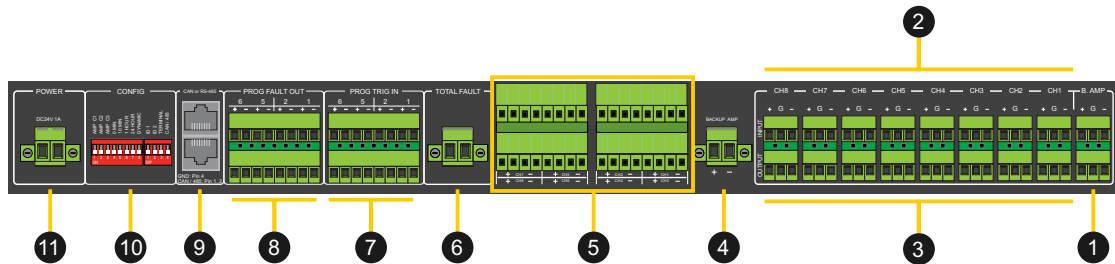


- 1 On / Off Switch
- 2 Power indicator
- 3 Loudspeaker line indicators
- 4 Amplifier status indicators
- 5 Backup amplifier indicator
- 6 TEST/ CALL Button \*

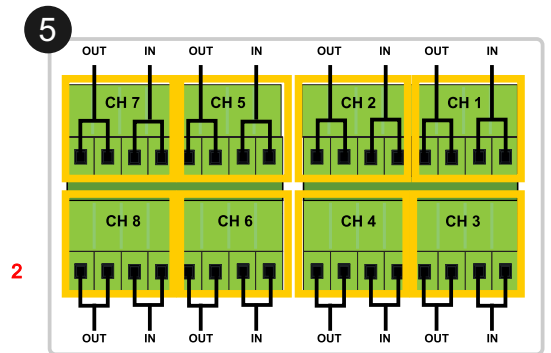
**\* Pressing 5 seconds:** supervision and impedance acquisition reset on speaker line and amplifier line supervision.  
**Pressing 1 second:** real time impedance check of the 8 speaker lines.

**Note:** When modifying the speaker line impedance, check at least once (modification involves increasing or decreasing the number of speakers.)

## Rear panel

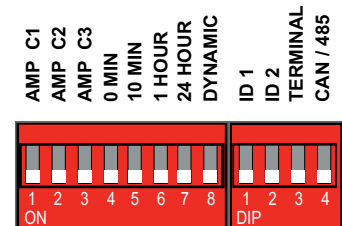


- 1 Balanced output of backup amplifier
- 2 Balanced inputs from amplifier signal 1-8
- 3 Balanced outputs from amplifier signal 1-8
- 4 L100V Inputs / Outputs for reserve amplifier
- 5 L100V Inputs / Outputs
- 6 Fault output remote control of equipment<sup>1</sup>
- 7 Programmable input interfaces
- 8 Programmable output interfaces
- 9 RS-485 interface
- 10 System configuration DIP switch
- 11 24VDC power input

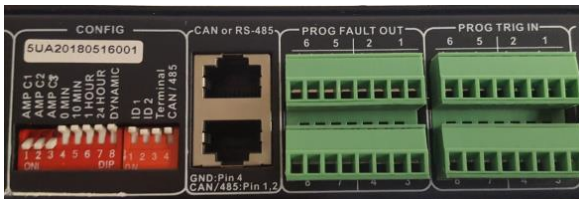
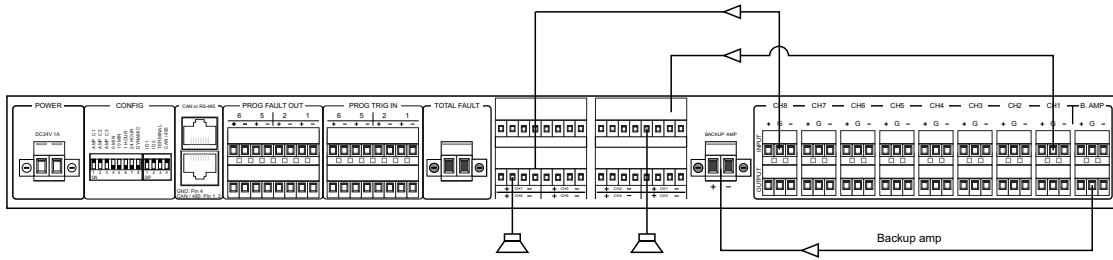


<sup>1</sup> When the equipment detects a fault in a speaker line (open circuit, short circuit, ground fault), in a zone amplifier (CH1 - CH8) or in the backup amplifier, the output of the contact will be open; if it works normally, the contact will be closed.

<sup>2</sup> AMP C1, AMP C2, AMP C3 allow you to set the number of amplifiers  
 0 MIN, 10 MIN, 1 HOUR, 24 HOUR, dynamic: allows you to set the monitoring interval (without monitoring / every 10 minutes / every 1 hour / every 24 hours, respectively).  
 ID1, ID2, allow you to configure the address of the device.  
 Terminal represents an end of line resistor. If the device is at the end of a network, set the switch to OFF  
 CAN/485: RESERVED

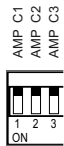


## System configuration



In the configuration shown, with AMP C3, AMP C2, AMP C1 set to ON ("111"), the unit is configured in "8 input / 8 output" mode which means that each amplifier is associated with its own line of speakers.

### Configuration "000" (1 input / 8 outputs)



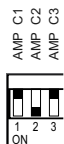
The audio signal source is connected to the CH1 signal input. The CH1 signal output is connected to the signal input of amplifier 1. The speaker output of amplifier 1 is connected to the AMP input of CH1. The outputs of Zone CH1 ~ CH8 are connected to their respective speaker lines, and all of them will play the CH1 audio signal.

### Configuration "100" (2 input / 8 outputs)



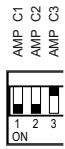
The audio signal sources are connected to the CH1 and CH4 signal inputs. The signal outputs CH1 and CH4 are connected to the signal inputs of amplifiers 1 and 4 respectively. The speaker outputs of amplifiers 1 and 4 are connected to the AMP inputs of CH1 and CH4 respectively. The zone outputs CH1~CH8 are connected to their respective speaker lines, and the audio signal from CH1 will be played in zones 1 to 4, while the audio signal from CH4 will be played in zones 5 to 8.

### Configuration "010" (3 input / 8 outputs)



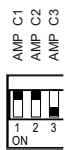
The audio signal sources are connected to the CH1 and CH4 signal inputs. The signal outputs CH1 and CH4 are connected to the signal inputs of amplifiers 1 and 4 respectively. The speaker outputs of amplifiers 1 and 4 are connected to the AMP inputs of CH1 and CH4, respectively. The zone outputs CH1~CH8 are connected to their respective speaker lines, and the audio signal from CH1 will be played in zones 1 to 4, while the audio signal from CH4 will be played in zones 5 to 8.

### Configuration "110" (4 inputs / 8 outputs)



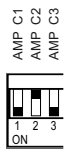
The audio signal sources are connected to the signal inputs CH1, CH3, CH5 and CH7. The signal outputs CH1, CH3, CH5 and CH7 are connected to the signal inputs of the amplifiers 1, 3, 5 and 7 respectively. The speaker outputs of amplifiers 1, 3, 5 and 7 are connected to the AMP inputs of CH1, CH3, CH5 and CH7, respectively. The CH1~CH8 zone outputs are connected to their respective speaker lines, and the audio signal of CH1 will be reproduced in zones 1 and 2, the audio signal of CH3 will be reproduced in zones 3 and 4, the audio signal of CH5 will be reproduced in zones 5 and 6, while the audio signal of CH7 will be reproduced in zones 7 and 8.

### Configuration "001" (5 inputs / 8 outputs)



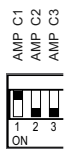
The audio signal sources are connected to the CH1~CH5 inputs. The CH1~CH5 signal outputs are connected to the signal inputs of the 1~5 amplifiers, respectively. The speaker outputs of the 1~5 amplifiers are connected to the AMP inputs of CH1~CH5, respectively. The CH1~CH8 zone outputs are connected to their respective speaker lines, and the CH1~CH4 audio signals will be reproduced in zones 1~4, while the CH5 audio signal will be reproduced in zones 5~8.

### Configuration "101" (6 inputs / 8 outputs)



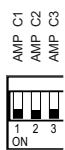
Se conectan las fuentes de señal de audio a las entradas de señal CH1~CH6. Las salidas de señal CH1~CH6 se conectan a las entradas de señal de los amplificadores 1~6, respectivamente. Las salidas de altavoz de los amplificadores 1~6 se conectan a las entradas AMP de CH1~CH6, respectivamente. Las salidas de zonas CH1~CH8 se conectan a sus respectivas líneas de altavoces, y las señales de audio de CH1~CH5 se reproducirán en las zonas 1~5, mientras que la señal de audio del CH6 se reproducirá en las zonas 6~8.

### Configuration "011" (7 inputs / 8 outputs)



The audio signal sources are connected to the CH1~CH6 signal inputs. The CH1~CH6 signal outputs are connected to the signal inputs of the 1~6 amplifiers, respectively. The speaker outputs of the 1~6 amplifiers are connected to the AMP inputs of CH1~CH6, respectively. The CH1~CH8 zone outputs are connected to their respective speaker lines, and the CH1~CH5 audio signals will be reproduced in zones 1~5, while the CH6 audio signal will be reproduced in zones 6~8.

### Configuration "111" (8 inputs / 8 outputs)



The audio signal sources are connected to the CH1~CH8 signal inputs. The CH1~CH8 signal outputs are connected to the signal inputs of the 1~8 amplifiers, respectively. The speaker outputs of the 1~8 amplifiers are connected to the AMP inputs of CH1~CH8, respectively. The CH1~CH8 zone outputs are connected to their respective speaker lines, and the CH1~CH8 audio signals will be reproduced in zones 1~8, respectively.