

RL96 Controller

Part of the **smartSMS-NET** Product Line

State-of-the-art Sound Masking System With Exclusive Adaptive Control Technology



- 8 output channels
- Up to 12 speakers per channel
- Independent equalizer for each channel
 - 340 narrow bands automatic equalizer
 - 1/3rd octave bands automatic or manual equalizer
- 8 inputs for Active Volume Control of the masking sound in each zone
- Independent 1/3rd octave equalizers on inputs when used for music/paging
- High-efficiency / low consumption power amplifier providing 92 dBA at 1m
- Integrated Touch Screen for easy control of masking sound and music in each zone
- Compact rack mount unit (1U) with incredible performances while meeting LEED requirements

smartSMS-NET networked sound masking system highlights:

- Real Time Adaptive Technology that continuously and seamlessly adjust the volume of the masking sound for optimal confidentiality and comfort (US Patent 8116 461)
- Automatic equalization that guarantees the optimum sound masking spectra (US Patent 7460675)
- Simple and highly versatile without compromising sound masking performance and quality.
- Many controller units can be networked together to construct large sound masking projects.

Specifications

Outputs	
Nb Outputs	8
Max Nb Speakers/Output	12
Max Nb Speakers/Controller	96
Sound Masking	
Sound Masking Volume	30 to 92 dBA in 0.1 dB steps and mute
Sound Masking Equalizer	23 1/3 rd Octaves bands from 63Hz to 10kHz
Sound Masking Ref Spectrum	12 pre-set reference masking spectrums; unlimited user defined masking spectrums from 100 to 6,3kHz
Sound Masking Volume Ramp-Up	User defined, up to 30 days
Adaptive Volume Control – Allow to improve acoustic comfort by 50% -Patent US Patent 8116 461	
Nb Inputs	8 shared with music and paging inputs
Max Nb Sensors/Input	6
Real time Control	Independent real time sound masking volume adjustment for each output channel
Masking Volume Change Rate	Adjustable down to 0.1dB steps, updates every 15s
Active Adjustment Range	User defined; maximum range: -7 to +3 dB relative to reference masking level.

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Specifications (cont.)

Music and Paging	
Music and Paging Inputs	8 (shared with Adaptive Volume Control inputs)
Music and Paging Mixer	Independent for each output channel
Music and Paging Volume	30 to 92 dBA(white noise) in 0.1dB steps and mute
Music and Paging Equalizer	20 1/3rd octave bands
Touch Screen Control	
Integrated Touch Screen	Allowing Volume control of the masking sound and music, and selection of Preset EQ for each channel
Volume range & step	20 dB range; Step 0,5 dB
Preset Equalizer Selection	for each channel, allow the selection of 12 Preset equalizers, or the EQ done with the auto calibration
Password function	Admin and End-User password to enable or disable volume and advance functions
Volume Control Knobs	
Volume Ctrl Knob Mixer	Independent for each output channel: sound masking and/or paging and music
Volume Range	User defined
Schedule	
Schedule	24 hour periods per day, 7 days
Volume	0.1dB steps
Transition Ramp	Instant, 2m30, 5min, 10min, or 15min
Schedule Mixer	Independent for each output channel: sound masking and/or paging and music
Monitoring	
System diagnosis	24/7 diagnosis (requires computer running Project Manager Software and wifi connections)
Project Manager Software compatibility	
Project Master	Can be used in the Project Manager software as a Master unit or a Secondary unit
Connectivity	
Connectivity	Ethernet, Wifi, or USB (not required for normal operation)
Wifi	WPA/WPA2 Personal or WEP - <u>Wifi radio module can be disabled if required</u>
Emergency relay input	Allow shut down sound masking on event
Power	
Input	18-24VDC; Max 150W; Power-supply included
Physical	
Size	430mm x 190mm x 44mm (16.9" x 7.5" x 1.75") (1U rack mount brackets)
Weight	1,7kg (3,8lb), including the power pack
Warranty	
Warranty	5 years
LEED Design	
Acoustic	Provide high quality of Speech Privacy and improve acoustical comfort
Very Low Electric Consumption	High efficiency/low consumption amplifier & daily schedule allowing automatic shut down
Certifications – ETL Listed 3191772	
UL62368-1 – Standard for Audio, Video and Similar Electronic Apparatus – Safety Requirements	
UL 2043 – Standard for Fire Test for Heat and Visible Smoke Release for Discrete Products and Their Accessories Installed in Air-Handling Spaces	
FCC – EN 55103-1&2 – Electromagnetic compatibility-Product family standard for audio, video, audio-visual and entertainment lighting control apparatus for professional use - Part 1: Emissions, Part 2: Immunity	
Related ASTM Standards	
ASTM E1374-06 (11) – Standard Guide for Open Office Acoustics and Applicable ASTM Standards	
ASTM E1573-18 – Standard Test Method for Evaluating Masking Sound in Open Office Using A-Weighted and 1/3 Octave Band SPL	
ASTM E1130-08 – Standard Test Method for Objective Measurement of Speech Privacy in Open Offices Using Articulation Index	
ASTM E2638 – Standard Test Method for Objective Measurement of Speech Privacy Provide by Closed Rooms	