

# Roadworx Sound Masking Solutions RWSM-R96-8CH.

Sound  
Masking



## Compact 1U Rackmount 8-Channel Sound Masking Controller



Specially tailored to office spaces above 5000 square feet, the RWSM-R96-8CH delivers a whole new level of sound masking performance in a sleek 1U compact footprint.

### Key Features:

- 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
- High-power amplifier providing 92 dBA at 1m
- 8 inputs for active volume control sensors
- 4 music and paging inputs with independent 1/3rd octave equalizers for each output channel
- 2 inputs for wall mounted volume control knobs
- Touch-screen interface for zone volume control



### Soft dB Networked Sound Masking System highlights:

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



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Specifications	
Outputs	
Nb. Outputs	8
Max Nb. Speakers/Output	12
Max Nb. Speakers/Controller	96
Sound Masking	
Volume	30 to 92 dBA in 0.1 dB steps and mute
Equalizer	23 1/3 octave bands (63 Hz to 10 kHz)
Reference Spectrum	13 preset reference masking spectrums; Unlimited user defined spectrums from 100 to 6,3kHz
Volume Ramp-Up	User defined, up to 30 days
Active Volume Control	
Nb. Inputs <sup>1</sup>	8
Max Sensors/Input	6
Control	Independent sound masking volume adjustment for each output channel
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
Music and Paging	
Nb. Inputs <sup>1</sup>	4
Mixer	Independent for each output channel
Volume	30 to 92 dBA in 0.1dB steps and mute
Equalizer	20 1/3rd octave bands
Volume Control Knobs	
Inputs	2
Mixer	Independent for each output channel (Sound Masking and/or Paging and Music)
Volume Range	User defined

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Specifications	
Emergency Mute Relay	
Function	Mute Sound Masking and Music during an Emergency event
Touch Screen Interface	
Features	Adjust Sound Masking Volume and Equalizer and Music Volume for every Zone
Volume Range	20 dB, at 0.5dB step and mute
Security	User defined passcode
Volume Schedule	
Schedule	24 hour periods per day, 7 days
Transition Ramp	Instant, 2m30, 5min, 10min, or 15min
Schedule Mixer	Independent for each output channel (Sound Masking and/or Paging and Music)
Daylight Saving Time	Automatic Adjustment depending on local time zone settings
System Monitoring	
24/7 system diagnosis	Yes - Requires computer running Project Manager Software
LEED Requirements	
Acoustics	Enhanced acoustical comfort and improved speech privacy
Power Consumption	Controller can be put in low-power mode according to user-defined daily schedule
Project Master	
Can Be a Project Master	Yes
Connectivity	
Connectivity	Ethernet, WiFi, or USB (not required for normal operation)
WiFi	WPA/WPA2 Personal or WEP - WiFi radio module can be disabled if not required

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### Specifications

Power	
Input	18-24VDC, Max 150W
Physical	
Size	430mm x 190mm x 44mm (16.9" x 7.5" x 1.75") (Supplied with 1U rack-mount wings)
Weight	1.7kg
Warranty	
Warranty	5 years
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 E1573-09** – Standard Test Method for Evaluating Masking Sound in Open Office Using A-Weighted and One-Third Octave Band Sound Levels

**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