

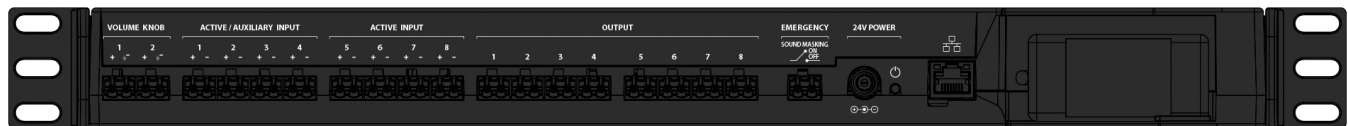
RLCTL2

Compact 1U Rackmount 8-Channel Sound Masking Controller

The RLCTL2 is essentially a RL96 controller but without amplifying power of its own. It's meant to be paired with an external power amplifier of your choice. This controller is specially tailored to office spaces above 5000 square feet, and delivers a whole new level of sound masking performance in a sleek 1U compact footprint.

Key Features:

- 8 output channels
- 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 background music/paging
- Integrated touch screen for easy control of masking sound and background music in each zone
- Compact rack mount unit (1U) with incredible performance meeting LEED requirements



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)

Specifications

Outputs	
Nb Outputs	8
Sound Masking	
Sound Masking Volume	90 dB span in 0.1 dB steps and mute
Sound Masking Equalizer	23 1/3rd Octaves bands from 63Hz to 10kHz
Sound Masking Ref Spectrum	12 preset reference masking spectrums; Unlimited user defined spectrums from 100 to 6,3kHz
Sound Masking Volume Ramp-Up	User defined, up to 30 days
Active Volume Control	
Nb Inputs	8 shared with music and paging inputs
Max Nb Sensors/Input	6
Real time control	Independent 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.
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	90 dB span in 0.1dB steps and mute
Music and Paging Equalizer	20 1/3rd octave bands
Volume Control Knobs	
Volume Ctrl Knob Mixer	Independent for each output channel (Sound Masking and/or Paging and Music)
Volume Range	User defined
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 range at 0.5dB step and mute
Preset Equalizer Selection	For each channel, select from 12 preset equalizers, or the EQ done with the auto calibration
Security	Admin and End-User password to enable or disable volume and advance functions
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)
Volume	0.1dB steps

Specifications Cont'd

System Monitoring	
24/7 system diagnosis	Yes - Requires computer running Project Manager Software and wifi connectivity
LEED Requirements	
Acoustics	Enhanced acoustical comfort and improved speech privacy
Low Power Consumption	High efficiency/low consumption amplifier & daily schedule allowing automatic shut down
Project Manager Software Compatibility	
Project Master	Yes – Can be used in the Project Manager Software as a Master or 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 not required</u>
Emergency relay input	Allows shutting down sound masking on emergency events
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 (3.8lb)
Warranty	
Warranty	5 years

Certifications

UL62368-1 – Standard for Audio, Video and Similar Electronic Apparatus – Safety Requirements

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 One-Third 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

