

VAR-CTLV2 CONTROLLER UNIT

VAR-CTLV2 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)

VAR-CTLV2 Controller Product Specifications:

- Up to 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

TECHNICAL SPECIFICATIONS

Outputs	
Nb Outputs	8
Sound Masking	
Sound Masking Volume	90 dB span in 0.1 dB steps and mute
Sound Masking Equalizer	23 1/3 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 Sensor Inputs	8 shared with music and paging inputs	
Max Nb Sensors/Input	6	
Control	Independent sound masking volume adjustment for each output channel	
Masking Volume Change Rate	Adjustable down to 0.1 dB 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 music and paging 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 1/3 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, 2min30sec, 5min, 10min, or 15min	
Schedule Mixer	Independent for each output channel (Sound Masking and/or Paging and Music)	
Volume	0.1dB steps	
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	Wifi, Ethernet, or USB (not required for normal operation)	
Wifi	WPA/WPA2 Personal or WEP can be turned ON or OFF	
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 - 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 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		

Multiple controller units can be networked together to construct large sound masking projects.



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