

# VA-24S-4CH CONTROLLER UNIT

## VA-24S-4CH Highlights:

- Simple and highly versatile without compromising sound masking performance and quality.
- Multiple controller units can be networked together to construct large sound masking projects.
- Adaptive volume adjustment for optimal efficiency and comfort (US Patent 8116461 B2)
- Automatic equalization that guarantees the optimum sound masking spectrum (US Patent 7460675 B2)

### VA-24S-4CH Controller Product Specifications:

- Up to 4 output channels
- Up to 6 speakers per channel
- Independent equalizer for each channel
  - 340 narrow bands automatic equalizer
  - 19 1/3 octave bands automatic or manual equalizer
- High-powered amplifier providing 88 dBA at 1m
- Up to 4 inputs for active volume control sensors
- 4 music and paging inputs with independent 1/3 octave equalizers for each output channel
- 2 inputs for wall mounted volume control knobs

## TECHNICAL SPECIFICATIONS

### Outputs

Nb Outputs 4

Max Nb Speakers/Outputs 6

Max Nb Speakers/Controller 24

### Sound Masking

Sound Masking Volume 30 to 88 dBA in 0.1 dB steps and mute

Sound Masking Equalizer Auto-calibration process in 340 narrow bands of 19 1/3 octave bands from 100Hz to 6.3kHz

Sound Masking Ref Spectrum 13 pre-set sound masking reference spectrums, unlimited user defined spectrums

Sound Masking Volume Ramp-Up User defined, up to 30 days



<b>Active Volume Control</b>	
Nb Sensor Inputs	4
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
<b>Music and Paging</b>	
Music and Paging Inputs	4
Music and Paging Mixer	Independent for each output channel
Music and Paging Volume	30 to 88 dBA in 0.1 dB steps and mute
Music and Paging Equalizer	18 1/3 octave bands (125Hz to 6.3kHz)
<b>Volume Control Knobs</b>	
Volume Ctrl Knob Inputs	2
Volume Ctrl Knob Mixer	Independent for each output channel (Sound Masking and/or Paging and Music)
Volume Range	User defined
<b>Schedule</b>	
Schedule	24 hour periods per day, 7 days
Volume	0.1dB steps
Transition Ramp	Instant, 2min30sec, 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
<b>Monitoring</b>	
Monitoring	24/7 system diagnosis (requires a computer running Project Manager Software)
<b>LEED</b>	
Design Feature	Controller can be put in low power mode according to a daily schedule
Schedule	7 daily periods per week (user defined)
<b>Project Master</b>	
Can Be a Project Master	No
<b>Connectivity</b>	
Connectivity	Wifi, Ethernet, or USB (not required for normal operation)
Wifi	WPA/WPA2 Personal or WEP can be turned ON or OFF
<b>Power</b>	
Input	18-24VDC, Max 30W
Available Power Supply	50W, 120W and 160W (Higher power needed when powering multiple controllers)
<b>Physical</b>	
Size	233mm x 135mm x 33mm (9 3/16" x 5 5/16" x 1 5/16")
Weight	320g (0.7lb)
<b>Warranty</b>	
Warranty	10 years
<b>Certifications - ETL Listed 3191772</b>	
UL 60065 / ULC 60065 - Standard safety requirements for audio, video, and similar electronic apparatus	
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 - Electromagnetic compatibility - Product family standard for audio, video, audio-visual and entertainment lighting control apparatus for professional use - Part 1: Emissions, Part 2: Immunity	
<b>Related ASTM Standards</b>	
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 pressure 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 provided by closed rooms	

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1900 Firman Dr., #800  
Richardson, TX 75081 USA



Phone 866-557-8438  
Fax 972-526-5333



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Sales@mpsllc.com