



VA-12-2CH CONTROLLER UNIT

Simple and highly versatile without compromising sound masking performance and quality.

Each VA-12-2CH controller unit provides:

- Up to 2 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 2 inputs for active volume control sensors
- 2 music and paging inputs with independent 1/3 octave equalizers for each output channel
- 2 inputs for wall mounted volume control knobs

The VA-12-2CH networked sound masking system 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)

SPECIFICATIONS:

| Outputs | |
|------------------------------|--|
| Nb Outputs | 2 |
| Max Nb Speakers/Outputs | 6 |
| Max Nb Speakers/Controller | 12 |
| 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 |



| | |
|---|--|
| Active Volume Control | |
| Nb Sensor Inputs | 2 |
| 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 | 2 |
| 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) |
| Volume Control Knobs | |
| 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 |
| Schedule | |
| 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 |
| Monitoring | |
| Monitoring | 24/7 system diagnosis (requires a computer running Project Manager Software) |
| LEED | |
| Design Feature | Controller can be put in low power mode according to a daily schedule |
| Schedule | 7 daily periods per week (user defined) |
| Project Master | |
| Can Be a Project Master | Yes |
| Connectivity | |
| Connectivity | Wifi, Ethernet, or USB (not required for normal operation) |
| Wifi | WPA/WPA2 Personal or WEP can be turned ON or OFF |
| Power | |
| Input | 18-24VDC, Max 30W |
| Available Power Supply | 50W, 120W and 160W (Higher power needed when powering multiple controllers) |
| Physical | |
| Size | 233mm x 135mm x 33mm (9 3/16" x 5 5/16" x 1 5/16") |
| Weight | 320g (0.7lb) |
| Warranty | |
| Warranty | 10 years |
| Certifications - ETL Listed 3191772 | |
| 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 | |
| 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 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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