

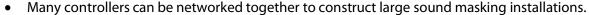
ML Series Controller

smartSMS-NET Sound Masking System

Each ML-SL controller provides:

- A compact Form-Factor
- Up to 8 output channels
- Up to 6 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 up to 92 dBA at 1m
- Up to 8 inputs for active volume control sensors
- Up to 4 music/paging inputs with independent 1/3rd octave equalizers for each output channel
- 2 inputs for wall mounted volume control knobs





• 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

•	ML48-8ch	ML24-4ch	ML12-2ch	
Outputs				
Nb. Outputs	8	4	2	
Max Speakers/Output	6			
Max Speakers/Controller	48	24	12	
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) or 500 narrow bands automatic equalizer			
Reference Spectrum	13 pre-set sound-masking reference spectrums, unlimited user defined spectrums			
Volume Ramp-Up	User defined, up to 30 days			
Active Volume Control				
Nb. Inputs ¹	8 (4 shared)	4 (4 shared)	2	
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.			

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Specifications (Cont.)

Music and Paging	ML48-8ch	ML24-4ch	ML12-2ch	
Nb. Inputs ¹	4 (4 shared)	4 (4 shared)	2	
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				
Nb. Inputs	2			
Mixer	Independent for each output channel (Sound Masking and/or Paging and Music)			
Volume Range	User defined			
Volume Schedule				
Schedule	24 hour periods per day, 7 days			
Volume	0.1dB steps			
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			
Monitoring				
Diagnosis	Automatic			
Reporting	System diagnosis report sent by email and/or stored locally			
Requirement	Computer running Project Manager Software			
LEED				
Feature	Controller can be put in low-power mode according to daily schedule			
Schedule	7 daily periods per week (user defined)			
Connectivity				
USB	USB 2.0, Mini B connector			
Wifi ²	802.11b/g/n, WEP 40/64-bits or WPA/WPA2 personal, 450 kbps			
Ethernet	DHCP or Static IP, 350 kbps			
Power				
Input		24 VDC		
Rating	50W	25W	15W	
Power-Supply		EA-1050		
Physical				
Dimensions	245mm x 135mm x 28mm (10" x 5.3" x 1.1")	191mm x 135mm x 28mm (7.5" x 5.3" x 1.1")		
Weight	400g (0.9lb)	300g (0.7lb)		
Certifications				
Compliance	ETL Listed 3191772			
Safety	UL 62368 / ULC 62368			
Fire Test	UL 2043			
Electromagnetic	FCC – EN 55103-1&2			

^{1:} A shared input can be an active volume control sensor input OR a paging/music input.





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^{2:} Wifi module can be disabled if it's not required