

DATA SHEET

Qt® 100

SOUND MASKING CONTROL MODULE



The Qt® 100 control module is a sound masking generator, controller and amplifier, with one auxiliary audio input to allow for distribution of audio from a paging controller or (background) music player. The Qt 100 control module is a compact one-zone controller suitable for installations of up to 12,000 square feet (1,115 m²). The masking level can be adjusted from the unit's front panel. Auxiliary audio level is set via the front panel.

FEATURES

- 1 zone, up to 120 emitters
- 1 audio input for paging or music
- Contact closure integrates with fire alarm systems
- Front panel control with LCD
- Surface mount only
- CE marked, UL listed, and RoHS compliant
- Covered by Biamp Systems' five-year warranty
- Manufactured in the U.S.A.
- TAA compliant
- GSA eligible

ARCHITECTS & ENGINEERS SPECIFICATION

The controller shall consist of all electronics required for operating a sound masking system from a single accessible location. Systems with distributed electronic packages above ceilings are not acceptable. The controller shall provide one zones and shall be sufficient to generate sound masking, audio control and audio power for up to 12,000 square feet (1,115 m²) of coverage. Each audio output shall provide four uncorrelated channels of masking noise to minimize phase interference and hotspots. The complete system shall consume less than 7 watts of power. The unit shall meet all requirements of Underwriters Laboratories, the US and Canadian National Electrical Codes, FCC Part 15, and all pertinent UK and EU codes. The controller shall be CE marked, UL listed, and shall be compliant with the RoHS directive. Warranty shall be 5 years. The controller shall be Qt® 100.

Qt 100 SPECIFICATIONS

Frequency Response¹		Output Connections:	2 RJ-45
Sound Masking:	200Hz to 6.3kHz	Minimum Output Impedance:	2Ω (per channel)
Music/Paging:	200Hz to 10kHz	Power Supply	
SPL¹		Operating Voltage:	100-240VAC 50/60Hz
Minimum Masking SPL (@ 1m):	30dBA	Current Draw:	0.6A
Maximum Masking SPL (@ 1m):	60dBA	Output:	24VDC @ 1A
Maximum Music/Paging SPL (@ 1m):	62dBA	Max. Power Consumption (24VDC):	7W
Masking		Input Connector:	Captive Screw Terminal & Coax Power Plug (center pin positive)
Number of Non-Correlated Masking Sources:	4	Included Accessories:	ACT Hole Saw
Number of Masking Zones:	1 (2 cable runs per zone)	Overall Dimensions	
Masking Level Adjustment:	0.5dB steps	Height:	3.5 inches (89mm)
Max Emitter/Device Capacity:	60 Qt Emitters or Room Controls per cable run	Width:	7 inches (179mm)
Max Emitter Cabling Distance:	1000 feet (300m) per cable run	Depth:	0.875 inches (23mm)
Audio Inputs		Weight:	6 oz. (170g)
Input Connector Type:	Captive Screw Terminal	Environmental:	
Number of Inputs:	1 (Stereo or Mono)	Ambient Operating Temperature Range:	40 - 90° F (4 - 32° C)
Input Level:	+4dBu (2VRMS max)	Humidity:	0-95% relative humidity (non-condensing)
Input Level Adjustment:	1dB steps	Altitude:	0-6,600 ft (0-2000m) MSL
Input Impedance:	5kΩ	Compliance:	
Remote Control			FCC Part 15B (USA)
Connector Type:	Captive Screw Terminal		UL and C-UL listed (USA and Canada)
Input Type:	Contact Closure (Normally Open)		CE Marked (Europe)
Number of Inputs:	1		RoHS Directive (Europe)
Output Type:	Logic Status (5VDC)		ETL Listed
Number of Outputs:	1		Green Spec Listed

¹ Specifications based on use of Qt Emitter array and based on published layout practices


OPTIONAL ACCESSORIES

Description	SKU
Hole Saw ACT	HS-ACT
Hole Saw Drywall	HS-DW
10 ft Plenum-Rated Cable	CC-10- (B=Black / W = White)
25 ft Plenum-Rated Cable	CC-25- (B=Black / W = White)
50 ft Plenum-Rated Cable	CC-50- (B=Black / W = White)
75 ft Plenum-Rated Cable	CC-75- (B=Black / W = White)
100 ft Plenum-Rated Cable	CC-100- (B=Black / W = White)
Room Control (White)	Qt-RC3
Power Supply	PS-4
4-Pack of Qt Emitters, 16 ft cables	E-A-W-16-4 (E-A-B-16-4 for Black)
4-Pack of Qt Emitters, 30 ft cables	E-A-W-30-4 (E-A-B-30-4 for Black)

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