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 Sound Masking: 200Hz to 6.3kHz Music/Paging: 200Hz to 10kHz

SPL¹

Minimum Masking SPL (@ 1m): 30dBA Maximum Masking SPL (@ 1m): 60dBA Maximum Music/Paging SPL (@ 1m): 62dBA

Number of Non-Correlated

Masking Sources:

1 (2 cable runs per zone) **Number of Masking Zones:** 0.5dB steps **Masking Level Adjustment:**

Max Emitter/Device Capacity: 60 Qt Emitters or Room

Controls per cable run

Max Emitter Cabling Distance: 1000 feet (300m) per cable run

Audio Inputs

Input Connector Type: Captive Screw Terminal **Number of Inputs:** 1 (Stereo or Mono) +4dBu (2VRMS max) Input Level: **Input Level Adjustment:** 1dB steps

Input Impedance: $5k\Omega$

Remote Control

Captive Screw Terminal **Connector Type:**

Input Type: Contact Closure (Normally Open) **Number of Inputs:**

Output Type: Logic Status (5VDC) **Number of Outputs:**

2 RJ-45 **Output Connections:**

Minimum Output Impedance: 2Ω (per channel)

Power Supply

Operating Voltage: 100-240VAC 50/60Hz **Current Draw:** 0.6A **Output:** 24VDC @ 1A

Max. Power Consumption (24VDC): 7W

Input Connector: Captive Screw Terminal & Coax Power Plug

(center pin positive)

Included Accessories: ACT Hole Saw

Overall Dimensions

Height: 3.5 inches (89mm) Width: 7 inches (179mm) Depth: 0.875 inches (23mm) Weight: 6 oz. (170g)

Environmental:

Ambient Operating

Temperature Range: 40 - 90° F (4 - 32° C) **Humidity:** 0-95% relative humidity (non-condensing) Altitude: 0-6,600 ft (0-2000m) MSL

Compliance:

FCC Part 15B (USA) UL and C-UL listed (USA and Canada)

CE Marked (Europe) RoHS Directive (Europe)

ETL Listed Green Spec Listed

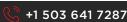
OPTIONAL ACCESSORIES

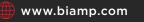
Description	SKU
Hole Saw ACT	HS-ACT
Hole Saw Drywall	HS-DW
10 ft Plenum-Rated Cable	CC-10- (B=Black / W = White)
25 ft Plenum-Rated Cable	CC-25- (B=Black / W = White)
50 ft Plenum-Rated Cable	CC-50- (B=Black / W = White)
75 ft Plenum-Rated Cable	CC-75- (B=Black / W = White)
100 ft Plenum-Rated Cable	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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¹ Specifications based on use of Qt Emitter array and based on published layout practices