

Technical Specification

FEATURES:

- MOUNTS TO SWM-35, 60 & 100 WALL MOUNT AMPLIFIERS
- 7 ACTIVE FILTERS
- 1 OCTAVE EQUALIZATION
- ± 12 DB BOOST OR CUT
- OPERATES ON 24VDC
- CONSTANT “Q” EQUALIZATION



DESCRIPTION:

A seven band modified one octave equalizer module used with Clarity SWM 35,60 and 100 watt wall mount amplifiers. The equalizer module is used to enhance the sound quality of a paging or sound reinforcement system where acoustical conditions may present a problem. The equalizer allows more usable gain from the sound system by allowing adjustments to frequency levels that cause feedback. Seven slide controls on the front panel provide an immediate visual indication of the response curve. The equalizer provides up to 12 dB of boost or cut to seven different frequencies at or about one octave apart. The unit is mounted to the bottom of the Clarity Wall Mount Amplifier and connects to the effects loop and accessory power jack.

Specifications:

Filter Frequencies

- Band 1 60 Hz
- Band 2 200 Hz
- Band 3 560 Hz
- Band 4 1100 Hz
- Band 5 2200 Hz
- Band 6 4500 Hz
- Band 7 10.0 kHz

Filter “Q”

Filter “Q” =1.8

Frequency Response

All filters set to 0 dB gain:
20 Hz to 20 kHz ±. 5 dB

Distortion

Less than 0.1 %

Signal To Noise Ratio

> 80 dB

Power Requirements

24Vdc, 100ma maximum

HOUSING AND FINISH

Steel housing constructed from 24-gauge material finished in carbide black with white graphics.

ENVIRONMENT

Temperature: 0 to 50 °C (32 to 122 °F)
Humidity: 0 to 85% Non-Precipitating

DIMENSIONS AND WEIGHT

9.3” (23.6 cm) W x 4.0” (10.2 cm) H x 2.6” (6.6 cm) D
Weight: 3.0lbs (1.35kg)

Technical Specification

ARCHITECTS' AND ENGINEERS

The seven band 1 Octave Equalizer shall have 7 active constant "Q" filters providing up to 12 dB of gain or attenuation. The center frequencies shall be 60 Hz, 200 Hz, 560 Hz, 1100 Hz, 2200 Hz, 4500 Hz and 10.0 kHz.

The frequency response of the equalizer shall be 20 Hz to 20 kHz. Distortion shall be less than 0.1% in any operating mode. The signal to noise ratio shall be > than 80 dB with the equalizer in the 0 dB position.

There shall be seven slide controls provided to allow adjustment of the frequencies and also provide a visual display of the response curve. A green power indicator shall be provided to show a power on condition.

The housing shall be constructed of cold rolled steel and finished in carbide black with white graphics. The dimensions shall be 9.3" (23.6 cm) W x 4.0" (10.2 cm) H x 2.6" (6.6 cm) D. Approximate weight shall be 3.0lbs (1.35kg).

The equalizer shall be model number SWM-EQ manufactured by Clarity.

Limited Warranty

Clarity warrants its products to be free from defects in materials and workmanship under conditions of normal use and service for a period of one year from the date of shipment. The obligation under this warranty shall be limited to the replacement, repair or refund of any such defective device within the warranty period, provided that:

1. inspection by Clarity indicates the validity of the claim,
2. the defect is not the result of damage, misuse, or negligence after the original shipment,
3. the product has not been in any way repaired by others and that factory sealed units are unopened. (A service charge plus parts and labor will be applied to units defaced or physically damaged).
4. freight charges for the return of products to Clarity are prepaid,
5. all units "out of warranty" are subject to a service charge. The service charge will cover minor repairs (major repairs will be subject to additional charges for parts and labor).

This warranty is in lieu of and excludes all other warranties expressed or implied, and in no event shall Clarity be liable for any anticipated profits, consequential damages, loss of time or other losses incurred by the buyer in connection with the purchase, operation or use of the product.

This warranty specifically excludes damage incurred in shipment. In the event a product is received in damaged condition, the carrier should be notified immediately. Claims for such damage should be filed with the carrier involved in accordance with the F.O.B. point.