

QSC OCTAL INPUT ACCESSORIES

MODEL A-1 PRECISION ATTENUATOR

OWNER'S MANUAL

The A-1 Attenuator is an octal input accessory for all QSC Series One and Series Three amplifiers. It provides a way of establishing very accurate, repeatable level settings, while preserving the audio quality of the transformerless, balanced input. A similar octal accessory, the AT-1, should be used where an input transformer is desired.

APPLICATION

With the amplifier's built in Gain controls at maximum, the voltage gain is determined solely by fixed precision 1% metal film resistors. To simplify gain calculations, we have adjusted the amplifier dB gain values to the nearest whole number in accordance with the following table. The number of dB's was adjusted to fall as close as possible to 1 volt input sensitivity; the exact sensitivity is also shown below.

Series	Model	Full Gain	Input Sens.	8-ohm power
Series One	1080	26 dB	0.838V	35W
	1151	29 dB	1.05V	110W
	1200	29 dB	1.00V	100W
	1400	32 dB	1.00V	200W
	1700	34 dB	1.02V	325W
Series Three	3200	29 dB	1.05V	110W
	3350	32 dB	1.00V	200W
	3500	34 dB	0.98V	300W
	3800	34 dB	1.07V	360W

The A-1 allows the user to reduce the level in 16 exact 2 dB increments (32 dB total). Discrete metal film 1% resistors and rhodium plated silver alloy rotary switch contacts assure accuracy and reliability. The circuit configuration preserves the active balanced input to the amplifier for good hum rejection and has an additional RF filter for greater confidence against radio pickup. These benefits are especially valuable to the sound contractor who must meet tight specifications in large multidriver sound systems where a transformerless input is desired for highest audio quality.

INSTALLATION IN SERIES ONE AMPLIFIERS

1. Individual-Channel Installations.
Series One amplifiers have a single eight position DIP

2dB". If you want 0dB of attenuation, remove the module, reset the DIP switches to restore normal operation, and keep the Gain controls fully up.

SPECIFICATIONS

FREQUENCY RESPONSE: 20 Hz to 20K Hz +/- 0.1 dB

INSERTION LOSS: 2 dB

NUMBER OF POSITIONS: 16

STEP SIZE: 2 dB +/- 0.1 dB

OVERALL ATTENUATION TOLERANCE: +/- 0.2dB at any step over
range of recommended source impedances.

MAXIMUM ATTENUATION: 32 dB

INPUT IMPEDANCE: Greater than 5K Ohms

RECOMMENDED SOURCE IMPEDANCE: 60 Ohms to 300 Ohms for
+/- .2 dB overall attenuator error.

PRODUCT WARRANTY

QSC Audio Products guarantees the A-1 to be free from defective material and/or workmanship for a period of three years from date of sale, and will replace defective parts and repair malfunctioning products under this warranty when the defect occurs under normal installation and use- provided the unit is returned to our factory via prepaid transportation with proof of purchase (sales receipt). This warranty provides that examination of the returned product must disclose, in our judgement, a manufacturing defect. This warranty does not extend to any product which has been subject to misuse, neglect, accident, improper installation, or where the date code has been removed or defaced.

WARRANTY AND SERVICE REPAIR INSTRUCTIONS:

1. Pack the product safely making sure to include a copy of the sales receipt, your name, return address, and phone number. Mark the package- Attention Service Dept.
2. Ship the product prepaid to QSC Audio Products. We recommend UPS.
3. We will determine if the product is under warranty:
 - A. If it is we will repair and ship it back to you at no charge.
 - B. If it is not we will contact you and inform you of the charges. Upon your approval, we will repair the product and ship it back freight and service charges collect (COD).