



The Mark of the Professional...

VOLUME CONTROL ATTENUATORS

Davis AT Series 70V/25V Auto-transformers



AT-100W
AT-40W
AT-20W



AT-100S
AT-40S
AT-20S

FEATURES

- 20-Watt, 40-Watt and 100-Watt Models
- 70-Volt or 25-Volt Input/Output
- All Models Fit Single Gang Electrical Boxes
- 10 Position Attenuation Plus Off
- Lower Insertion Loss
- 3dB Detent Attenuation Steps
- Detachable "Phoenix" Type Connection Permits Prewiring Before Final Installation
- Snap-on Plate Eliminates Visible Screws in "W" Series
- Knob's Hidden Skirt Prevents Easy Removal

DESCRIPTION

The Davis AT-Series auto-transformers permit the volume level control of a loudspeaker, or group of loudspeakers (a "zone"), connected on 70 volt or 25 volt speaker systems. In addition to providing control of groups of loudspeakers, this easily accessible wall mounted control is the ideal choice for professional offices where appearance and individual preferences need to be accommodated.

The desired level and quality of sound reproduction is assured by the 10 position attenuation, wide frequency response and lower insertion loss.

Installation is facilitated by mounting in a single gang electrical box and the solderless, detachable Quick Connect "phoenix" type connector.

The AT series offers a broad range of options with power ratings from 20 watts to 100 watts, 70/25 volt line inputs-outputs, and either the standard stainless steel cover or the attractive off-white plastic snap-on cover with hidden screws.

NEW TECHNOLOGY



OLD RELIABILITY

J.W. Davis & Company • 3030 Canton Street • P.O. Box 710219 • Dallas, Texas 75371-0219

Sales 800-527-5705 • Fax 800-388-9106 • Corp 214-651-7341 • Fax 214-939-0328 • www.jwd.com • jwd@jwd.com



The Mark of the Professional...

SPECIFICATIONS

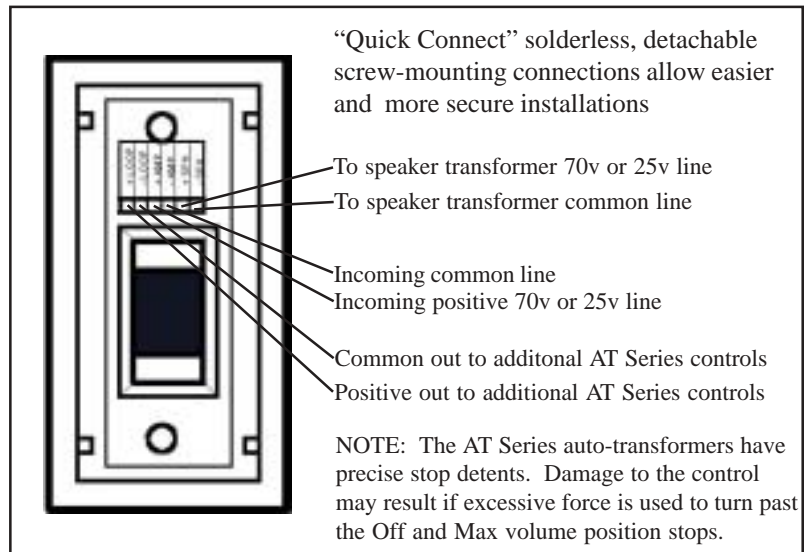
Model	AT-20	AT-40	AT-100
Power (Watts).....	20.....	40.....	100
Attenuation per Step.....	3dB.....	3dB.....	3dB
Total Attenuation.....	30dB.....	30dB.....	30dB
Insertion Loss.....	.4dB.....	.4dB.....	.4dB
Frequency Range	40Hz-20KHz	40Hz-20KHz	40Hz-20KHz
Depth.....	2 3/4".....	2 3/4".....	2 3/4"
Mounting.....	1 gang.....	1 gang.....	1 gang

INSTALLATION

Installation of the AT Series is shown in the adjoining table. The removeable phoenix type connection allows the control to be wired prior to final installation. Screw termination provides quick, solderless and secure bonding for up to 16 gauge wire. The "W" series feature a screwless face plate that snaps on the front of the auto-transformer. All AT Series controls mount on standard single gang electrical outlet boxes (not included). See Tech Note below for power calculations.

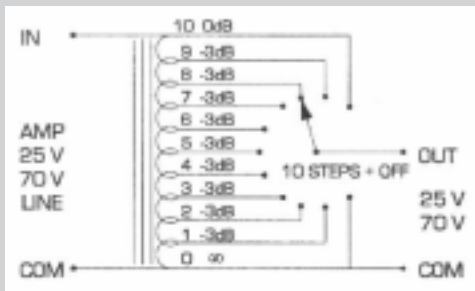
ARCHITECH'S AND ENGINEER'S SPECIFICATIONS

The volume control attenuators shall be the J. W. Davis Model AT-20 and AT-40 having a 20/40 watt power rating on 25v or 70v speaker line outputs. The unit shall have ten attenuation positions plus off with 3db attenuation per step and a total of 30dB attenuation. The effective frequency range shall be 40 Hz to 20,000 Hz + 1dB with an insertion loss of .4dB. The dimensions of the unit with its front plate and depth shall be 4.5" H x 2.75" W x 2.25 D" with a weight of 0.72 lbs. The front plate of the unit shall be constructed of white ABS molded plastic or stainless steel and will fit in a single gang electrical box. The knob for the white plastic plate shall be white and the stainless steel knob shall be black. The autoformer shall have stop detents for the off position and the tenth attenuation position.



TECH NOTE: Line Controls

The term "attenuator" includes potentiometers ("pots"), pads, and autotransformers. Since each performs a different function, it is useful to distinguish between the three. **Pots** typically are used to control the volume level of a single loudspeaker. In 70/25 volt systems, they are installed between the line transformer and the individual loudspeaker. Unlike pots, **Pads** (usually "L-Pads") contain dual offsetting elements. This provides a constant impedance to the source and thereby avoids changes in the system load when the volume is changed. Pads also are installed on single loudspeakers between the line transformer and the loudspeaker. **Auto-transformers** are used to control the volume of



a loudspeaker, or a group of loudspeakers (a "zone") installed on 25 or 70 volt lines. As shown in the adjoining diagram, their operation is similar to ordinary line transformers with each step or change in volume being accomplished by switching to a lower or higher ratio primary tap. Since auto-transformers function like ordinary line transformers, the load on each auto-transformer must be calculated using the highest wattage rating of the transformer taps of the individual loudspeakers being controlled; i.e., four loudspeakers with transformers tapped at 5 watts would require an auto-transformer with a minimum power rating of 20 watts.

NEW TECHNOLOGY



OLD RELIABILITY

J.W. Davis & Company • 3030 Canton Street • P.O. Box 710219 • Dallas, Texas 75371-0219

Sales 800-527-5705 • Fax 800-388-9106 • Corp 214-651-7341 • Fax 214-939-0328 • www.jwd.com • jwd@jwd.com