AT6

6-Zone 100V Attenuator & Source Selector

Item ref: 952.476UK

User Manual

Version 1.0

⚠	Caution: Please read this manual carefully before operating Damage caused by misuse is not covered by the warranty

Introduction

Thank you for choosing the Adastra AT6 attenuator and source selector as part of your public address system.
This unit is designed to offer a completely passive zone control solution for installed 100V public address systems.
Please read this manual to gain the best results from your product and avoid damage through misuse.

SAFETY SYMBOL AND MESSAGE CONVENTIONS

CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN	AVIS RISQUE DE CHOC ELECTRIQUE NE PAS OUVRIR

This symbol indicates that dangerous voltage constituting a risk of electric shock is present within this unit

This symbol indicates that there are important operating and maintenance instructions in the literature accompanying this unit.

Important notice:

The AT6 is designed for 100V speaker systems and is not suitable for low impedance 4/8/16Ω speakers.
Although not mains powered, the 100V rating of this product requires standard high voltage precautions to be observed.
Take care when making connections to avoid any shorted wires, which could cause damage to the amplifiers or the AT6.
Each output of the AT6 has a maximum power rating of 30W. Ensure that the combined tapped power of speakers connected to a single output does not exceed 30W.

Safety

- If liquids are spilled on the casing, stop using the AT6 immediately, allow the unit to dry out and have checked by qualified personnel before further use.
- Avoid impact, extreme pressure or heavy vibration to the case
- No user serviceable parts inside – Do not open the case – refer all servicing to qualified service personnel.
- Use double insulated speaker wire with adequate current rating for the 100V speaker connections

Placement

- Keep out of direct sunlight and away from heat sources
- Keep away from damp or dusty environments
- Ensure adequate access to controls and connections

Cleaning

- Use a soft cloth with a neutral detergent to clean the casing as required
- Do not use strong solvents for cleaning the unit
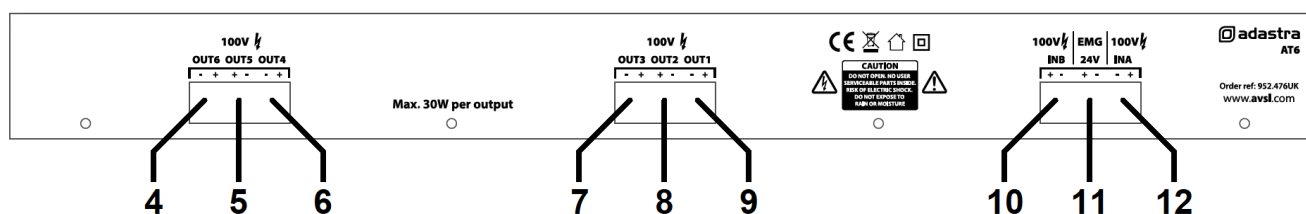
Installation

The AT6 may be installed into a standard 1U rack space in a 19" rack cabinet.
Alternatively, the AT6 may be used free-standing.
Ensure adequate support for the unit and access to connectors, terminals and controls.
Do not place heavy objects on top of the AT6 that may cause excessive strain on the housing.

Front panel
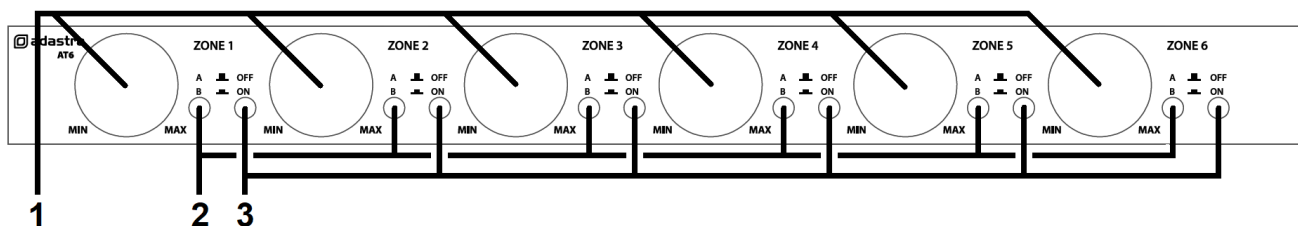
1. Zone volume rotary switch controls
2. Source select (amplifier A / amplifier B)
3. Zone on/off switch

Rear panel

4. Zone output 6 screw terminals - / +
5. Zone output 5 screw terminals + / -
6. Zone output 4 screw terminals - / +
7. Zone output 3 screw terminals - / +
8. Zone output 2 screw terminals + / -
9. Zone output 1 screw terminals - / +
10. Amplifier input B screw terminals + / -
11. 24V emergency mute screw terminals + / -
12. Amplifier input A screw terminals - / +

Connection and setup

Connections for the AT6 are all on the rear panel and the screw terminals are on removable blocks for ease of installation. Ensure all connection polarities are correct as indicated on the rear panel.

The AT6 can operate in conjunction with one or two 100V amplifiers as input sources.
Connect the 100V output terminal from an amplifier to the "+" terminal of IN A on the AT6 (12)
Connect the COM output terminal from the same amplifier to the "-" terminal of IN A on the AT6.

If another amplifier is to be used as a second source, repeat the above steps for IN B terminals (10).

Between the terminals for IN A and IN B are another pair of screw terminals labelled "EMG 24V" (11)
These may be connected to the 24V trigger of an emergency panel to mute all outputs upon alarm.

Take maximum care not to allow any shorted strands of wire across any of the terminals.

All 100V speaker outputs are via screw terminals on 2 further removable blocks (4 – 9)
Connect 100V speakers via the corresponding "+" and "-" output terminals on the AT6
If more than 1 speaker is to be connected to a single zone output, connect these in parallel.
Ensure that the total load of all speakers on a single output does not exceed 30W.

Make sure all screw terminal blocks are firmly in place on the rear panel after making connections.

Operation

Once all connections are made, turn all zone volume controls (1) to the "MIN" level (anticlockwise)
Select source "A" for each zone by keeping the source select button in the "out" position (2)
Select each zone output to be "off" by keeping the on/off switch in the "out" position (3)

Switch on the amplifier connected to IN A, play audio for testing and turn up the volume part way.
Enable Zone 1 on the AT6 by pressing in the on/off switch and gradually turn up the volume control.
Check to hear the audio through the speakers and move onto the same process for zones 2 to 6.
When all outputs have been checked for operation, adjust the amplifier and zone levels as required.

If a second amplifier is connected to IN B, turn all zone volume controls down before testing.
Switch on the second amplifier, play some audio through it and turn up the volume part way.
Press the source select button for each zone to the "in" position, selecting "B" as the input.
Gradually increase the volume control for each zone in turn, checking for output from the speakers.

When checking is complete, adjust the output of the amplifier and zone volume controls as required.

If the 24V EMG is connected to an emergency panel, test that it mutes all zone outputs upon alarm.

Specifications

Power handling	30W max. per output zone
Zone controls	11 position volume attenuator, A/B source selector, On/Off switch
Emergency control	24V mute terminals
Connections	IN A + B, OUT 1-6, 24V MUTE (Euroblock screw terminals)
Dimensions	482 x 160 x 43mm
Weight	2.39kg