

Specifications

Input	Bridging XLR Stereo, 600 ohm switchable
Output	DB25 Female. 6 x Stereo Nominal +4dBm operation
Output Impedance	44 ohms to drive 600 ohm loads
Noise	22Hz - 22kHz UNWTD Typical -89dB Ref +4dBm
Distortion	At 1kHz -85dB Typical Ref +4dBm
Frequency Response	20Hz - 100kHz \pm 0.2dB
Input Clipping Level	Typically +22dBm
Gain	Adjustable -8dB to +20dB
Common Mode Rejection	~100dB DC - 60Hz, ~70dB at 20kHz
Power	IEC Inlet, 3 Watts max, 230 or 115 VAC 50/60 Hz
Fuse	Delay type 32mA for 230VAC, 80mA for 115VAC
Dimensions	142(w) x 42(h) x 153(d) heavy duty aluminium extrusion
Rack Mounting	Optional RF300 takes three to a 1RU frame
Finish	Black Powder coated satin front and rear, stipple case
Weight	750g plus packaging

WARNING NOTICE

TAKE CARE TO PREVENT ELECTROCUTION - ENSURE THE POWER CORD IS DISCONNECTED FROM MAINS POWER BEFORE REMOVING FRONT OR REAR PANELS.

IF REMOVING THE PCB ENSURE THAT THE GROUND SYSTEM IS PROPERLY INSTALLED WHEN REASSEMBLING.

DURING OPERATION, ENSURE ACCESS TO THE POWER OUTLET IS NOT HINDERED SO POWER CAN BE DISCONNECTED IF REQUIRED.

Certifications

This Tieline Technology product has been extensively tested to ensure compliance with Australian "C Tick" and European CE requirements.

Because high frequency circuits are used, it is possible that induced radiation may enter the signal path. Care should be taken to avoid high levels of radio frequency exposure to the unit as this may result in some distortion of the signals.

E&OE Subject to change without notice.

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Tieline Technology

ProSolutions ADA600

Six Output Balanced Stereo Audio Distribution Amplifier OPERATORS MANUAL

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Thank you for purchasing the Tieline Technology ProSolutions ADA600 balanced audio distribution amplifier.

INSTALLATION

SEE WARNING NOTICE

VOLTAGE SETTING

Ensure the unit is set for the correct operating voltage. This is internally set to 115 or 230 VAC 50/60Hz \pm 10%. The amplifier is set to the correct voltage for the area it is shipped to. Damage will result if the unit is not set to the correct power voltage. Ensure the correct fuse is fitted if the voltage selector is changed.

Input Audio

Two XLR female type sockets are provided for left and right audio input. The input circuit uses electronic differential balanced line receivers. If transformers are required they should be fitted externally. Take care to ensure that DC is not applied to the inputs as they are DC coupled for optimum performance.

The input can be terminated in 600 ohms by selecting the rear panel termination switches to on. Ensure that 600 ohm circuits are only terminated once if connections are being bridged to other equipment. Front panel gain adjustments may need resetting when the termination is switched in or out.

If the input audio is unbalanced use Pin 1 for ground and Pin 2 for signal. Pin 3 should be connect to Pin 1 or grounded. Adjust the gain for the required output level.

LED's are provided to indicate that audio is present. These start to illuminate at about 12dB below +4dBm and are at full brightness at about +6dBm

Input XLR Connections

Pin 1 is Ground

Pin 2 is + (If required use this pin for unbalanced -10dBv input)

Pin 3 is - (if required connect to Pin 1 for unbalanced input)

Gain Setting

The ADA600 is supplied with the output level set to match the input level when terminated in 600 ohms. If more or less level is required it is possible to reduce or increase the level to suite your installation. Unbalanced audio levels of -10dBv can be amplified to as much as +12dBm if required. Ensure each output is set for the same level to maintain stereo balance.

Operation Mode

Two switches are provided on the rear panel to allow various modes of operation.

1. Stereo - Select switches to A and B
2. Mono Input (Left) 12 outputs - Select switches to A and C
3. Stereo Inputs Summed to 12 Mono outputs - Select switches to D and C

Audio Output Connections

Stereo audio outputs are provided on a single female DB25 connector. If XLR type connectors are required Tieline manufacture an optional interface to 12 male connectors mounted on a 1RU panel. The outputs are DC coupled low impedance to drive 600 ohm lines.

Female DB25 Connections (DO NOT GROUND SIGNAL OUTPUTS)

First pin number is +

Left Outputs - 1,14 2,15 3,16 4,17 5,18 6,19

Right Outputs - 7,20 8,21 9,22 10,23, 11,24 12,25

Ground is on pin 13 (required for unbalanced audio output)

PRECAUTIONS

Ensure that devices that are connected to the ADA600 do not feed voltages back into the amplifier connections as this may damage the amplifiers.