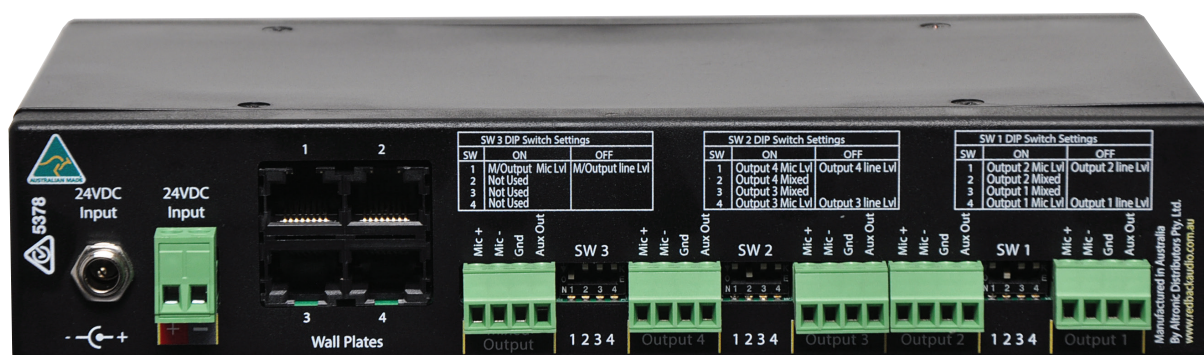




A 4930



A 4931

Operating Manual

A 4930 Four Output Mic/Line Hub

A 4931 Mic/Line Preamp Wallplate

Overview

The Redback A 4930 Microphone/Line Hub is designed to accept audio from up to four A 4931 Mic/Line Preamp wallplates. The A 4931 wallplate accepts either a microphone or line input and converts the signal to a balanced high level output. The high level output signal is carried via Cat5e cable, (suitable for distribution up to 300m without interference) back to the A 4930 Hub. Mic input is via a balanced XLR whilst the line input is via 2 x RCA sockets or 3.5mm audio jack for portable devices with a lower level line output.

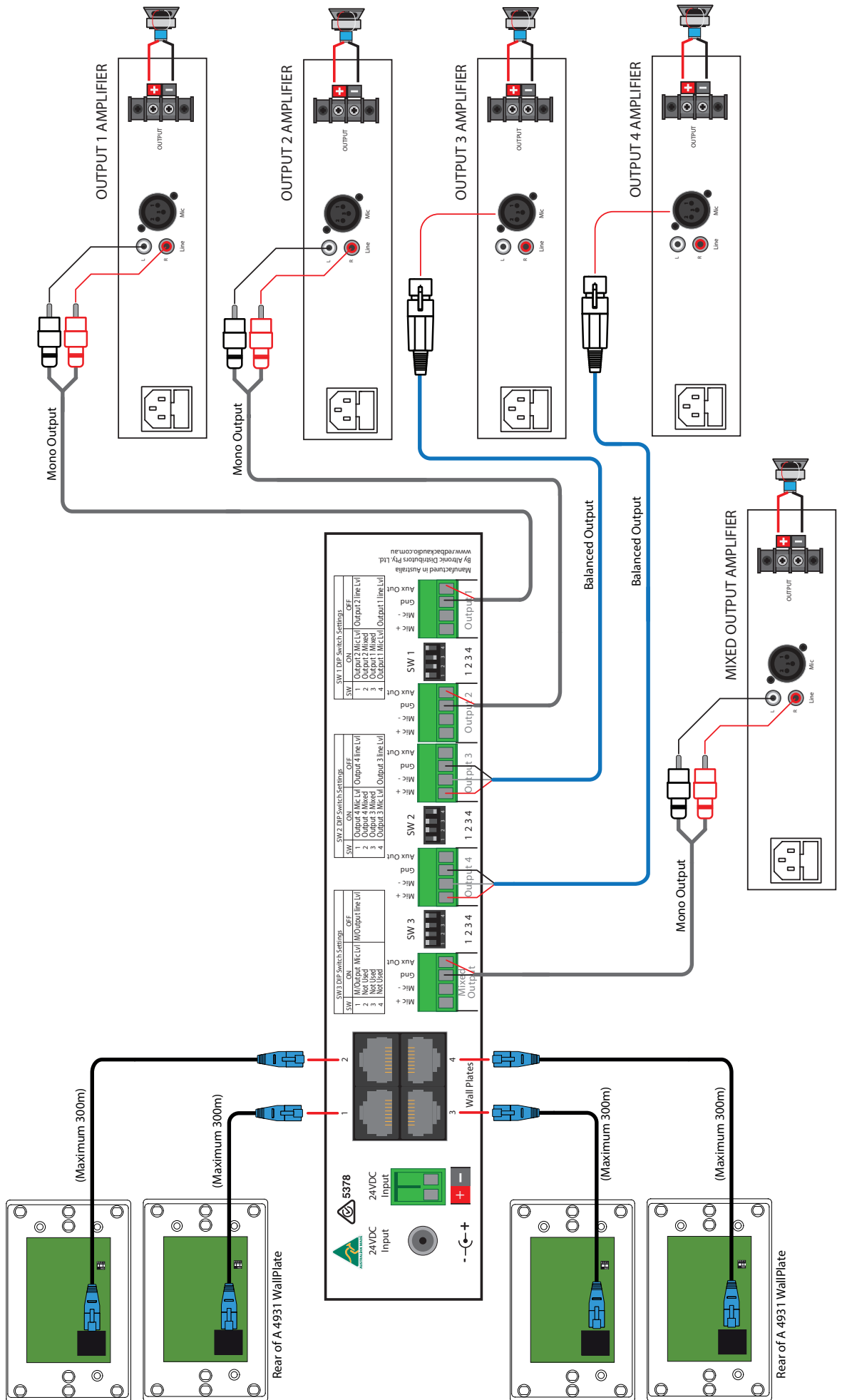
The A 4930 Hub has a dedicated output for each wall plate, with front mounted volume controls for each output. Each output can be DIP switch selected to be fed to a dedicated mixed output. Each output including the mixed output has DIP switch selectable balanced mic/line, or unbalanced line level outputs which can be fed directly into amplifiers.

The Hub is powered by 24V DC from the supplied plugpack and the A 4931 wallplates receive power down the Cat5e cable.

Redback® A 4930 Four Output Mic/Line Hub

CONNECTIONS

Figure 1 illustrates a typical wiring configuration for the A 4930 Hub. In this example Output 1 and Output 2 are both fed into the line inputs of amplifiers. Switches 1 and 4 of DIP1 are both set to OFF for Line Level output from the A 4930 (see DIP switch settings for more details). Output 3 and output 4 are both fed into the Microphone inputs of amplifiers. Switches 1 and 4 of DIP2 are both set to ON for Mic level output of the A 4930. The mixed output is being fed into a line level input of an amplifier so switch 1 of DIP is set to OFF. Switches 2 and 3 of DIP1 are set to ON signifying that the audio from Outputs 1 and 2 will be piped to the mixed output.



A 4930 DIP Switch Settings

The audio from the outputs of the A 4930 are available as a Aux output and/or a balanced output which can be set to be either microphone level or line level. As well as having dedicated outputs, each of these outputs can also be directed to the mixed output. These options are set by the DIP switches on the rear of the A 4930.

The DIP switch features are outlined below.

DIP 1

Switch 1 - Sets Balanced Output 2 to Mic or Line level output. ON - Mic Level Output, OFF - Line Level Output.

Switch 2 - When set to ON, Output 2 is fed to the mixed output.

Switch 3 - When set to ON, Output 1 is fed to the mixed output.

Switch 4 - Sets Balanced Output 1 to Mic or Line level output. ON - Mic Level Output, OFF - Line Level Output.

DIP 2

Switch 1 - Sets Balanced Output 4 to Mic or Line level output. ON - Mic Level Output, OFF - Line Level Output.

Switch 2 - When set to ON, Output 4 is fed to the mixed output.

Switch 3 - When set to ON, Output 3 is fed to the mixed output.

Switch 4 - Sets Balanced Output 3 to Mic or Line level output. ON - Mic Level Output, OFF - Line Level Output.

DIP 3

Switch 1 - Sets the Balanced Mixed Output to Mic or Line level output. ON - Mic Level Output, OFF - Line Level Output.

Switch 2 - Not Used.

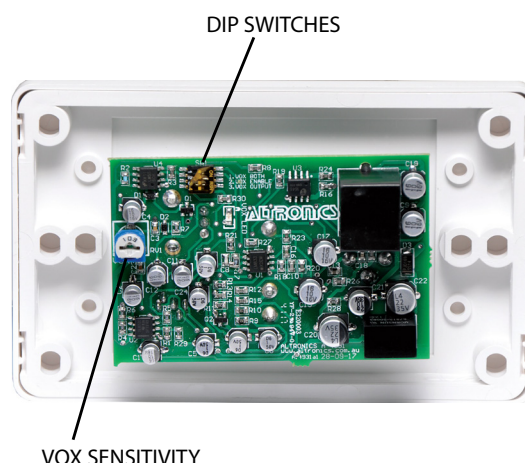
Switch 3 - Not Used.

Switch 4 - Not Used.

A 4931 Audio Output, VOX Settings and VOX sensitivity



A 4931



The A 4931 has a set of DIP switches on the rear which determine how the audio is output from the wallplate. The DIP switches are labelled 1) VOX BOTH, 2) VOX ENABLE, 3) VOX OUTPUT.

When the A 4931 is used with the A 4930 there are only two possible audio output options.

1) The audio from the A 4931 wallplate microphone input and the line and/or music inputs are mixed together and output to the A 4930 Hub.

DIP Switches set as follows: 1-OFF ,2-OFF, 3-OFF

2) The A 4931 wallplate microphone input has VOX priority over the line and music inputs. I.e. the audio from the line/Music inputs will be over ridden by the Mic input when a microphone is used.

DIP Switches set as follows: 1-OFF ,2-ON, 3-OFF.

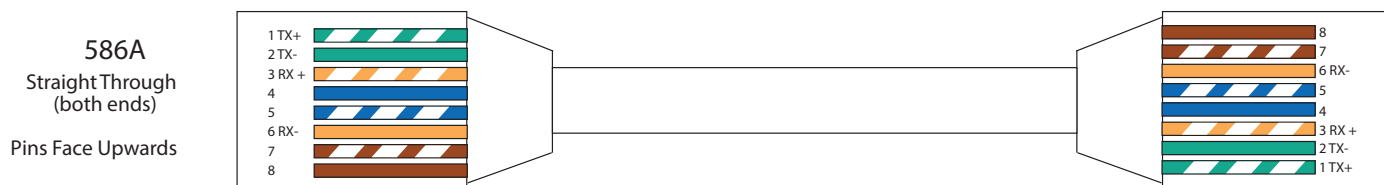
The VOX sensitivity of the microphone is adjusted by the trimpot on the rear of the A 4931 labelled "VOX".

Redback® A 4930 Four Output Mic/Line Hub

RJ45 cabling configuration for system components (586A 'Straight through')

System components are connected using "pin to pin" configuration RJ45 data cabling as shown below. When installing ensure all connections are verified with a LAN cable tester before switching any system component on.

Failure to follow the correct wiring configuration may result in damage to system components.



Troubleshooting

NO Power (Power LED does not illuminate):

Check power supply DC jack is 2.1mm and not 2.5mm size.
Check polarity of 24V DC supply.

Wall not operating correctly:

Check RJ45 cabling is correct.

A 4930 Specifications

OUTPUT MIC LEVEL:.....3mV

OUTPUT LINE LEVEL:.....1V

OUTPUT CONNECTORS:

Audio Outputs:Euroblock terminals

INPUT CONNECTORS:

Wall Plate Inputs:..... RJ45 8P8C

24V DC Power :.....2.1mm JACK (centre +ve)

24V DC Power :..... Euroblock terminals

CONTROLS:

Volume1-4: Front Volume

POWER SUPPLY: 24V DC @ 1 Amp

DIMENSIONS:~..... 210W x 122D x 44H

WEIGHT: ~..... 0.4 kg

A 4931 Specifications

INPUT MIC LEVEL SENSITIVITY:.....3mV

INPUT LINE LEVEL SENSITIVITY:.....1V

MUSIC INPUT LEVEL SENSITIVITY:200mV

OUTPUT CONNECTOR: RJ45 8P8C

INPUT CONNECTORS:

AUDIO :3 pin XLR balanced

..... 2 x RCA

..... 3.5mm JACK

24V DC Power :.....2.1mm JACK (centre +ve)

..... Euroblock terminals

All Australian made Redback products are covered by a 10 year warranty.

Should a product become faulty please contact us to obtain a return authorisation number. Please ensure you have all the relevant documentation on hand. We do not accept unauthorised returns. Proof of purchase is required so please retain your invoice.