



ASP 4

4 CHANNEL MIC PREAMP

USERS MANUAL

ASP 4 Microphone preamplifier

Introduction

The ASP 4 is a 4 channel microphone preamplifier, each channel having balanced input and outputs on XLR connectors, features include phantom power (48V or 18V), LF Filter, Mute, phase reverse, line level setting, 50dB gain range, volume control and level meter.

Factory setting

The roll off frequency of the LF Filter has 5 internal settings, factory setting is position 3 which is 70Hz. The other settings are 35Hz, 50Hz, 110Hz, and 150Hz.

The phantom power has 2 internal settings, factory setting is 48V. The second setting is 18V.

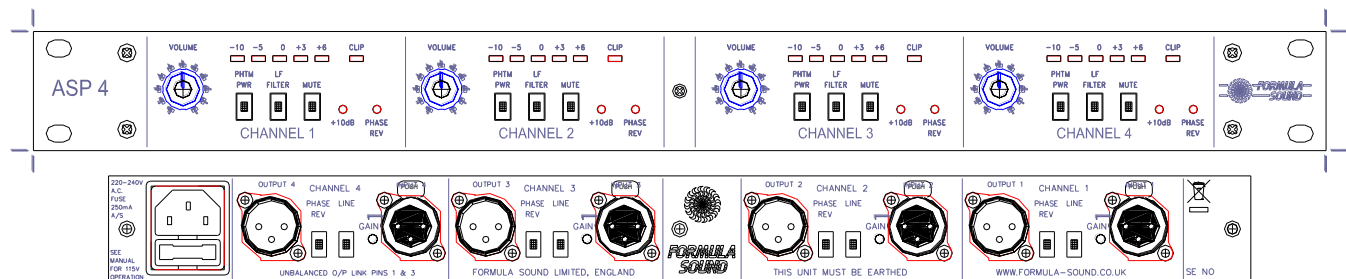
Gain is factory set to about 30dB and is adjustable via the back panel.

To change the settings ensure the power is disconnected, remove the 3 screws either side of the top cover and the 2 screws on the top cover (retain for refitting).

Move the jumpers shown in appendix 1 to the required positions for the settings you require, the silk screen legend on the PCB indicates setting.

Refit the covers.

Front and rear panels



Set up

The 4 channels are marked channels 1 – 4 and each channel is independent with its own controls, indicators and settings. All switches are illuminated when on, the back panel switches also have LED's on the front panel to indicate when they are on.

When using with microphones, connect a microphone to an input, if phantom power is required select phantom power by pressing the front panel switch on the appropriate channel.

If phase reverse is required select phase reverse by pressing the switch on the back panel, this will reverse hot and cold connections on the input XLR. (phase reverse LED on the front panel will also light).

Set the front panel volume control to 3/4 clockwise position then talk into the microphone and adjust the gain control on the back panel (adjacent to the input XLR) until the LED level meter reads 0dB.

For line level input press the “LINE” switch on the back panel for the required channel (Line LED on the front panel will also light).

Set the front panel volume control to 3/4 clockwise position. Connect the line level source and adjust the gain control on the back panel (adjacent to the input XLR) until the LED level meter reads 0dB.

Selecting “Mute” on the front panel will mute the audio on that channel.

Selecting “LF Filter” on the front panel will introduce an LF Filter into the signal path, the LF filter rolls off at up to 24dB/octave.

The LED meter indicates output level, the clip LED will come on if the output goes above +18dB.

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ASP 4 SPECIFICATION

Four channels each with balanced XLR input and XLR output connections that may be strapped for unbalanced use. Each channel operates independently and has the same specification.

Frequency response (LF Filter out)	20Hz – 20KHz	+/- 0.5dB
Distortion (THD and noise @ 1Khz)	<0.005% at +10dBu	
Noise (20Hz – 20KHz) 150R EIN	<125dB	
Input impedance	> 2K ohms balanced	
Gain adjustment range (Mic) (LINE)	Min +10dB Max +60dB	Min -25dB Max +25dB
Phantom Power	Factory set +48V May be switched to +18V	
LF Filter (rolls off at 24dB/octave below set frequency) Setting 1 35Hz Setting 2 50Hz Setting 3 70Hz	Factory setting 3 is 70Hz	Setting 4 110Hz Setting 5 150Hz
Mute (or volume control fully anticlockwise)	<100dB	
LED meter indicates output level	-10dB, -5dB, 0dB, +3dB, +6dB	
Clip indicator (output level)	>18dB	
Phase reverse	Reverses hot and cold on XLR in	
Power	230V (internally switch for 115V) 250mA slow blow fuse (500mA)	
Dimensions	19" rack mounting 1RU W 482mm, H 44mm, D 200mm	
Finish	Front and rear panels are black Anodised with silk screen legend. Covers are plastic coated steel.	

Formula Sound Limited reserve the right to alter the specification without notice



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E.U. CERTIFICATE OF CONFORMITY

We declare that the products listed conform to the following directives and standards

89/336/EEC amended by 92/31/EEC and 93/68/EEC

BS EN 50082-1 BS EN 50081-1

PRODUCT TYPE

ASP 4

The CE mark was first applied in 1995

Signed

B. J. Penaligon General Manager

Attention

The attention of the specifier, purchaser, installer, or user is drawn to the fact that good wiring practice must be observed when connecting the above equipment. Good quality connectors and screened cables must be used for all audio connections. Twin screened cables should be used for all balanced lines.

THIS EQUIPMENT MUST BE EARTHED

CONSULT THE USERS MANUAL FOR TECHNICAL DETAILS