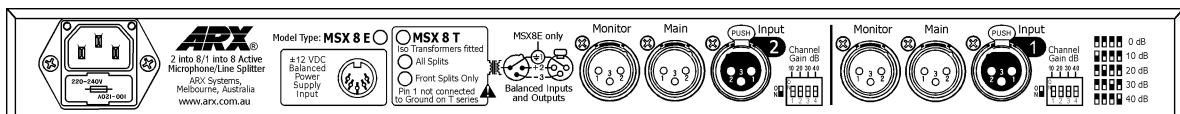
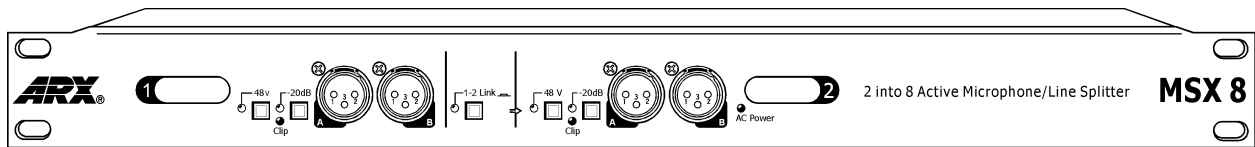


MSX 8



2 IN, 4 OUT/1 IN, 8 OUT ACTIVE MICROPHONE/LINE SPLITTER



Today's venues face a growing need to provide a multiplicity of audio feeds from presentations, conferences, orchestral performances and lectures.

The advent of digital broadcasting, the growth of webcasts and direct-to-CD archiving highlight the deficiencies in audio splitting systems more than ever before. Whether the final product is a broadcast feed or CD sales of an unrepeatable lecture, performance or event, end-users' expectations of audio quality are higher than ever.

With these requirements in mind, ARX has developed the MSX 8 Active Microphone/Line Splitter to deliver the performance required by today's standards of audio production.

Active microphone and line splitting has a number of benefits over passive splitters: primarily these are improved sound quality, noise figures comparable to the best microphone inputs, and increased resistance to RFI. All of which translate into superb audio quality for your clients.

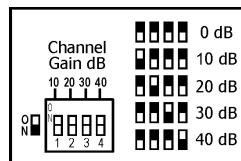
ABOUT THE MSX 8

The MSX 8 consists of two channels of actively buffered ultra low noise Microphone/Line Splitter. Each of these channels has four electronically Balanced splits – two on the rear panel, plus two more on the front panel. All four output splits have the option of transformer balancing if so specified.

Each channel has a -20 dB pad switch plus silently switchable 48V Phantom power with indicator LED.

Gain through the MSX 8 can be set individually by the small DIP switches on the rear of each channel, from 0dB through to +40 dB in 10 dB steps

A 'Link' switch links Channel 1 to Channel 2, providing an ultimate maximum of 8 Outputs from a single input. An indicator LED shows when this is active. A Clip LED indicates imminent signal overload through the channel.



Channel Gain setting with DIP switches

A numbered marker panel on the front provides a space where individual channel connections can be noted.

For remote or mobile applications a 5 pin DIN connector on the rear panel provides an access point to connect a 12V DC power supply

INSIDE INFORMATION

Internally, powerful RF input filtering removes both common mode and differential interference at ultrasonic frequencies and above. High CMRR is achieved by the use of precision components throughout.

Advanced user options include internally jumper linking Inputs to Main outputs, and Ground lifting Output Pins 1as required.

INTERNAL POWER SUPPLY

The MSX 8 has a low noise transformer based power supply to obtain the maximum benefit from the ultra low noise design of the splitter circuitry.

Summing up, the feature packed MSX 8 is the answer wherever transparent signal buffering and routing is required.

Features

- ➔ Two channel / four way split
- ➔ Channels linkable for 1 in, 8 out
- ➔ Ultra low noise design
- ➔ 'SilentSwitch' Phantom Power switch
- ➔ -20 dB pad switch
- ➔ 0 to +40 dB Gain available via rear switches
- ➔ Electronically Balanced Inputs and Outputs (standard)
- ➔ Transformer Balanced Outputs option
- ➔ 12 VDC supply connector for remote or mobile applications
- ➔ Intuitive, 'user friendly' layout
- ➔ Flawless performance in any audio environment

Specifications

Signal / Noise Ratio
-94dB

Distortion
.008% 20Hz - 20KHz

Gain through unit
Switchable 0, +10,
+20, +30, +40 dB

Maximum Output
+24dB

Pad Switch
-20dB attenuation

Phantom Power
+48VDC slow turn on/
turn off

Output Impedance
100 Ohms Electronically
Balanced
(Optional Transformer
balancing available)

Clip LED
1dB before clipping

12 Volt Connector
5 pin DIN

AC Mains Input
Fused IEC socket

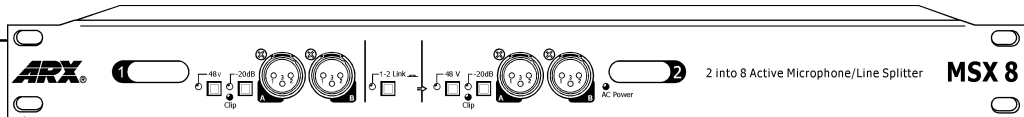
AC Power
100-120V AC 2 amp
220-240V AC 1 amp

Size
19"W x 1¾"H x 6"D
482 x 44 x 155 mm

Weight
5 lbs (2.2 Kg)



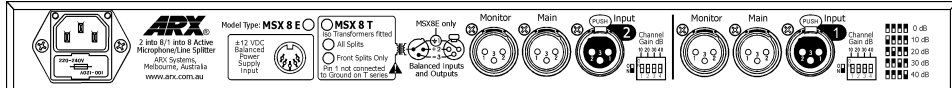
Our policy is one of continuous improvement, and therefore designs may change without notice. However, unless otherwise stated, specifications will always equal or exceed those previously given.



Front Panel

- A and B balanced XLR Output splits Channels 1 and 2. Pin 3--, Pin 2 +, Pin 1 Ground
- 48V Phantom Power switch and indicator LED
- Channel link switch and indicator LED
- -20dB pad switch
- Numbered marker panel for labelling individual channel assigns
- AC power LED

Note: No connection to Audio ground on transformer balanced models (T/S and T/ALL)



Rear Panel

- Channel Gain DIP switches: 0, +10, +20, +30, +40dB
- Balanced XLR Input Channels 1 and 2. Pin 3 -, Pin 2 +, Pin 1 Ground
- Balanced XLR Main (FOH) Output (same wiring as Input) Channels 1 and 2
- Balanced XLR Monitor Output (same wiring as Input) Channels 1 and 2
- 12 Volt DC power supply input for remote or mobile applications
- IEC 3 pin AC connector and integral fuseholder. Replace fuse with correct value only: 100-120 V AC 2 amp, 220-240 V AC 1 amp.

Ordering Options

- MSX 8 Electronically Balanced All Outputs
 MSX 8 T/S Electronically Balanced Main and Monitor Outputs,
 Transformer Balanced Outputs Splits 1 and 2
 MSX 8 T/ALL Transformer Balanced All Outputs

Architectural Specifications

The Active Microphone Splitter shall be a two channel unit in a steel chassis six inches (155mm) deep and one rack unit high.

Each channel shall have its input and two outputs on the rear panel plus two outputs on the front panel. Each channel shall also have a 48V Phantom power switch on the front panel with an indicator LED, and a -20 dB pad switch with an indicator LED.

Channel 1 shall also have a switch with an indicator LED to link the channel to channel 2.

The Input headroom shall be +21dB, with a CMRR of better than 70dB, and the frequency response shall be 10 Hz to 20 KHz, ±0.5dB.

The Output impedance shall be 100 ohms electronically balanced on all four outputs per channel. Additionally all outputs shall have the option of being transformer balanced.

The maximum Output level shall be +24dB, with a Signal to Noise ratio of -94dB unweighted.

Total Harmonic Distortion shall be 0.008% @ 0dB, 20 Hz to 20 KHz.

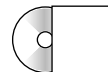
Gain through the unit shall be switchable to 0, +10, +20, +30, +40dB via rear panel switches.

AC power shall be supplied by a removable 3 pin mains cable, connecting to an IEC connector with integral fuse and voltage change switch on the unit's rear panel.

There shall also be a 5 pin DIN connector on the rear panel to connect a 12Volt DC power supply for use in remote or mobile applications

The Active Microphone Splitter shall be the ARX MSX 8.

Specifications available on CD ROM.
 Latest updates available at:
www.arx.com.au



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