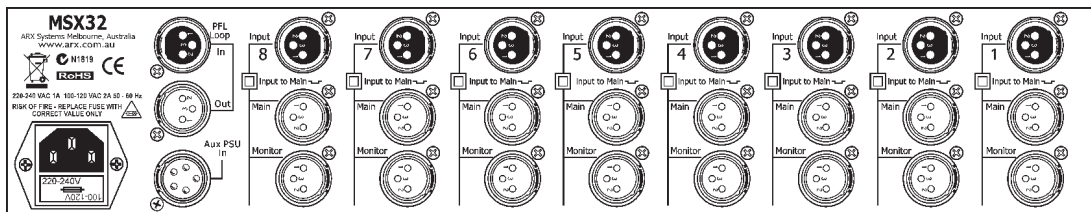
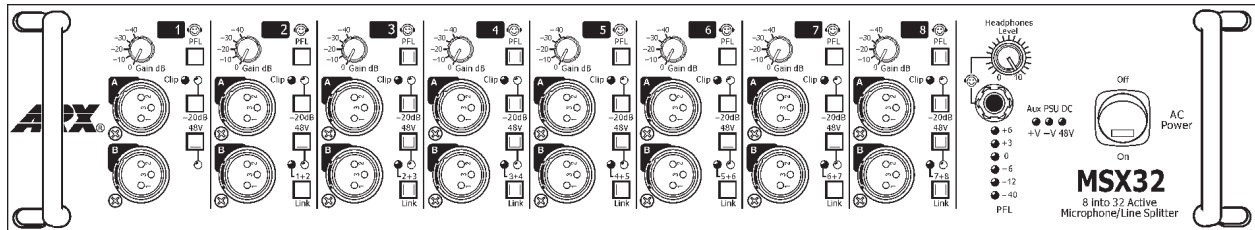


MSX 32



8 IN, 32 OUT ACTIVE MICROPHONE/LINE SPLITTER

WITH OPTIONAL REDUNDANT POWER SUPPLY



ACTIVE SPLITTER BENEFITS

Active microphone and line signal splitters have 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.

ABOUT THE MSX 32

With these benefits in mind, the ARX MSX 32 Active Microphone/Line Splitter has been developed to deliver the performance required by the increasing complexity of today's standards of audio production.

The MSX 32 consists of eight channels of actively buffered ultra low noise Microphone/Line Splitter. Each of these channels has two transformer Balanced splits on the front panel and two electronically Balanced outputs on the rear panel for Main and Monitor. These can be optionally transformer Balanced.

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

A PFL switch and 6 LED metering enables each channel to be easily checked with headphones for signal monitoring, and also for line tracing when troubleshooting. The PFL busses of multiple MSX32 units can be linked by connectors on the rear panel.

Gain through the MSX 32 can be set individually by adjusting the rotary Gain control on the front panel of each channel, from 0dB through to +40 dB in 10 dB steps

A 'Link' switch links each channel to the previous one, providing an ultimate maximum of 32 Outputs from a single input. An indicator LED shows when this is active.

A Clip LED indicates imminent signal overload through the channel.

Each channel also has a rear panel switch hard-linking the Input to the Main output. 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.

An illuminated power switch on the front panel provides visual confirmation of AC power connection to the unit.

The headphone output and the 6 LED PFL metering are both mounted on the right hand side of the front panel. Rear panel connectors enable this function to be linked when using multiple MSX 32 units.

INTERNAL POWER SUPPLY

The MSX 32 uses an internal toroidal transformer based power supply to get the maximum benefit from the ultra low noise design of the splitter circuitry.

THE PSU32 BACK-UP SUPPLY

However, for "critical" applications where systems must keep operating, we recommend including the PSU 32 redundant power supply unit. Individual +V, -V and 48VDC rail LED indicators show when the PSU 32 redundant power supply unit is connected to an MSX 32.

To sum up, this feature packed two RU device is the answer wherever transparent signal buffering and routing is required.

Features

- ➔ Eight channel / four way split
- ➔ Channels linkable up to 1 in, 32 out
- ➔ 'SilentSwitch' Phantom Power switching on all channels
- ➔ Optional PSU32 External redundant power supply
- ➔ -20 dB pad switch
- ➔ 0 to +40 dB Gain available via front switches
- ➔ Headphone monitoring and PFL metering
- ➔ Electronically Balanced Inputs, Transformer front Outputs (standard BST version)
- ➔ Optional Transformer isolated rear Outputs
- ➔ Intuitive, 'user friendly' layout
- ➔ Flawless audio performance

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
Output Impedance 300
Ohms Transformer
Balanced outputs

Clip LED
1dB before clipping

Headphone Output
200mW

AC Mains Input
Fused IEC socket

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

Transformer Type
Low noise shielded
toroidal

Size
19"W x 3½"H x 8"D
482 x 89 x 200 mm

Weight standard BST
model - 16 lbs (7.5 Kg)

Latest updates available at:
www.arx.com.au



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

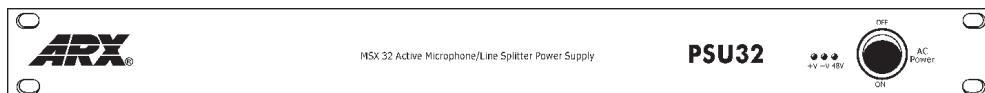
- Rotary Gain switches: 0dB, +10, +20, +30, +40
- A and B transformer balanced XLR Output splits Channels 1 through 8. Pin 3—, Pin 2 +, Pin 1 Not Connected
- PFL (Pre Fade Listening) switch
- 48V Phantom Power switch and LED
- Link to previous channel switch and LED
- -20dB pad switch and LED
- Headphone level control
- Headphone socket
- 6 LED PFL metering: -40, -12, -6, 0, +3 and +6dB
- Status LEDs to indicate PSX32 Backup power supply is connected
- Illuminated AC power switch
- Rack handles
- Rear Panel

Rear Panel

- Balanced XLR Input Channels 1 through 8. Pin 3 -, Pin 2 +, Pin 1 Ground
- Input Direct to Main Output switch
- Balanced XLR Main (FOH) Output (same wiring as Input) Channels 1 through 8
- Balanced XLR Monitor Output (same wiring as Input) Channels 1 through 8
- PFL Input and Output loop XLR connectors. Pin 3 -, Pin 2 +, Pin 1 Ground
- Aux PSU 5 pin XLR type connector from PSU32 Redundant Power Supply. - Pin 1: + VDC, Pin 2: - VDC, Pins 3 and 4: Ground, Pin 5 +48V
- IEC 3 pin AC connector and integral fuseholder. Replace fuse with correct value only: 220-240 V AC 1 amp, 100-120 V AC 2 amp.

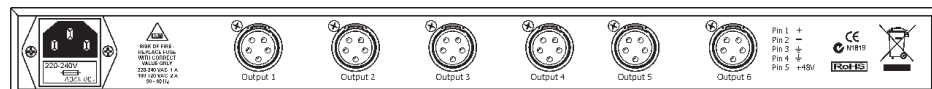
ARX PSU32 – REDUNDANT POWER SUPPLY FOR MSX 32

One x IRU unit providing redundant PSU for up to 6 MSX32



Front Panel

- Illuminated AC power switch
- Individual +V, -V and 48VDC rail LED status indicators



Rear panel

- Six individual 5 Pin XLR Sockets for DC Link connection to MSX 32
- 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 32 BST | Electronically Balanced Main and Monitor Outputs, Transformer Balanced Outputs Splits 1 and 2 |
| MSX 32 T/ALL | Transformer Balanced All Outputs |

ARX Systems Pty Ltd; PO Box 15, Moorabbin, Victoria 3189, Australia
Phone: 03 9555 7859 Fax: 03 9555 6747 International Fax +61 3 9555 6747
Email: info@arx.com.au Internet: www.arx.com.au