MP 101 Series

MIC TO LINE PREAMPLIFIERS

▸ **Switchable 48 volt phantom power**

▸ **Wide input gain adjustment range**

▸ **Switchable low cut filter**

▸ **Remote volume control and muting capability**

▸ **Flexible mounting options**

▸ **AAP mountable version - MP 101 AAP**

▸ **Decorator-Style wall-mountable version - MP 101 D**

MP 101

MP 101 D

MP 101 AAP

The Extron MP 101, MP 101 AAP, and MP 101 D are compact microphone preamplifiers that allow a dynamic or condenser microphone to be connected to any device with a line level input. Featuring 48 volt phantom power and wide input gain adjustment range, they are ideal for presentation environments as well as distribution and recording.

Extron Electronics
INTERFACING, SWITCHING AND CONTROL

DESCRIPTION

The Extron **MP 101** Series Mic to Line Preamplifiers are compact mic preamps for applications where a microphone must be connected to a line level audio input on a device such as a switcher or line level mixer. Mic level signals are boosted up to balanced or unbalanced line level signals. All MP 101 preamplifiers can be remotely controlled for microphone level adjustment by using the VCM 100 Series Volume and Mute or VC 50 Volume Controllers. These preamps also allow a microphone to be connected to the Aux/Mix input on the Extron MediaLink® series of switchers.

MP 101

The front panel of the MP 101 features a continuous gain control for precise adjustment of input microphone level. Toggle switches are provided to engage 48 volt phantom power for compatibility with condenser microphones, and a switchable low cut filter at 75 Hz to reduce rumble and wind noise picked up by the microphone. Input and output connections are provided on the rear panel using captive screw connectors. The MP 101 is housed in a 1U, one-eighth rack width metal enclosure for numerous installation options.
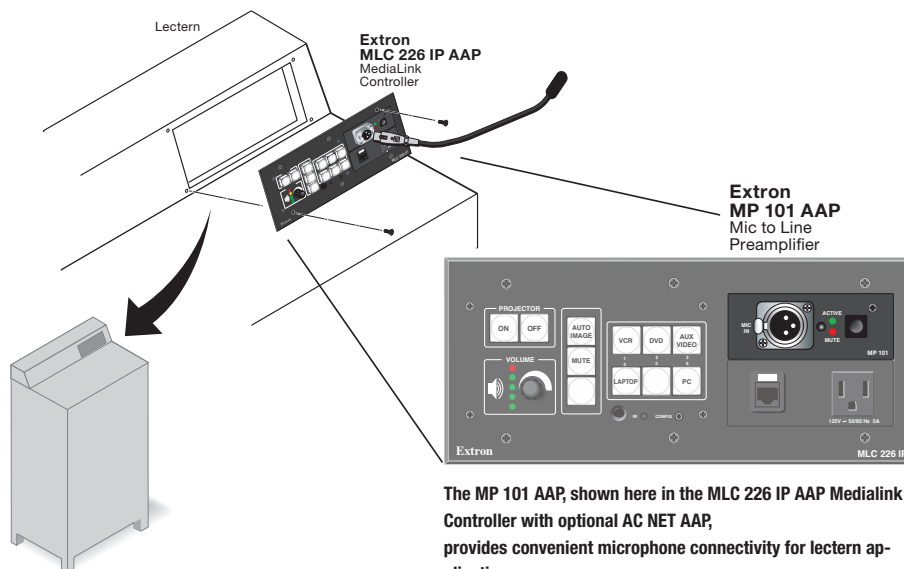
MP 101 AAP

The MP 101 AAP provides all of the same functions as the MP 101 within a double-space AAP - Architectural Adapter Plate active module. The front panel features a microphone input on an XLR connector, a recessed input gain control that can be concealed, and a push-button for muting the audio. The rear panel features a captive screw connector for the output, and slide switches for 48 volt phantom power and 75 Hz low cut filtering. The MP 101 AAP can easily be mounted in any Extron product or mounting frame with an opening for a double-space AAP.

MP 101 D

The MP 101 D offers the same features and functions as the MP 101 AAP, but in a form factor designed for wall mounting with the included decorator-style wallplate. It can be installed with or without a one-gang electrical box.

KEY FEATURES

▶ **Selectable 48 volt phantom power** – Provides voltage for condenser microphones.

▶ **Precise mic input gain adjustment** – A continuous, rotary trim pot allows for precise setting of microphone input gain from +25 to +72 dB to accommodate various microphone signal levels. For the MP 101 AAP and MP 101 D, the pot is recessed on the front panel and can be concealed with a security cap to prevent unauthorized use.

▶ **Remote volume and mute control capability** – Allows volume adjustment and muting of the MP Series' output using the VCM 100 Volume and Mute Controller or VC 50 Volume Controller.

▶ **Selectable 75 Hz low cut filter** – Rolls off frequencies below 75 Hz, so that rumble and wind noise are reduced without affecting vocal range frequencies.

▶ **Mute button - MP 101 AAP** – Easily allows the presenter to mute the microphone input. An LED reference gives visual feedback as to whether the mic is active or muted.

▶ **Integration friendly connectivity** – The MP 101 provides captive screw connectors for microphone input and line level output. The MP 101 AAP and MP 101 D each offer an XLR connector for microphone input and a captive screw connector for line level output.

▶ **Flexible mounting options** – The MP 101 is housed in a 1U, one-eighth rack width metal enclosure and can be mounted under or through a desk or in a rack. The MP 101 AAP easily mounts within a double-space AAP opening in a variety of AAP frames and MLC lectern mounts. The MP 101 D mounts in an included decorator-style wallplate.

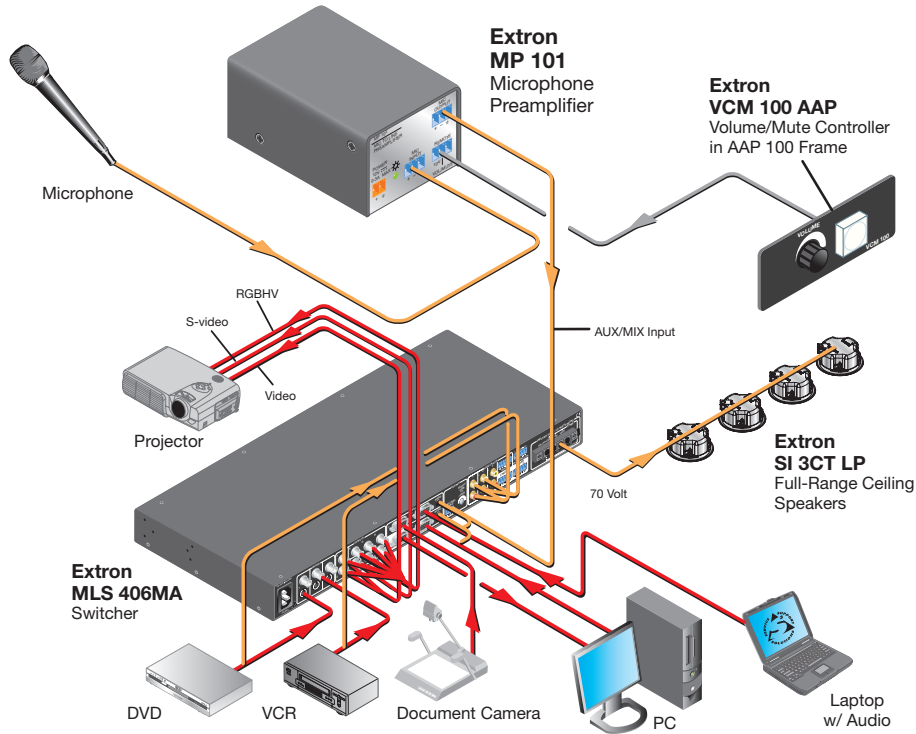▶ **External international power supply included, part # 70-055-01**

The MP 101 AAP, shown here in the MLC 226 IP AAP Medialink Controller with optional AC NET AAP, provides convenient microphone connectivity for lectern applications.
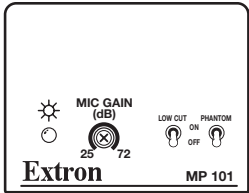
SPECIFICATIONS

AUDIO	
Gain	Adjustable, +25 dB to + 72 dB
Frequency response	20 Hz to 20 kHz, ±0.1 dB
THD + Noise (with a 10 Hz to 80 kHz bandwidth filter)	0.03% when input is -48 dBV and output is +4 dBu. 0.14% when input is -60 dBV and output is -10 dBV
S/N	92 dB at maximum output (unweighted, with a 10 Hz to 80 kHz bandwidth filter)
CMRR	>70 dB @ 20 Hz to 20 kHz
Low cut filter	75 Hz (18 dB per octave)
Equivalent input noise	<126 dBV (unweighted, with a 10 Hz to 80 kHz bandwidth filter)

AUDIO INPUT	
Number/signal type	1 mono, balanced
Connectors	
MP 101	(1) 3.5 mm captive screw connector, 3 pole
MP 101 AAP, MP 101 D	1 female 3-pin XLR
Impedance	2k ohm balanced
Nominal level	-60 dBV or -48 dBV
Maximum level	-1.5 dBu, (balanced) at 1% THD+N

NOTE: 0 dBu = 0.775 Vrms, 0 dBV = 1 Vrms, 0 dBV ≈ 2 dBu

AUDIO OUTPUT	
Number/signal type	1 mono, balanced
Connectors	(1) 3.5 mm captive screw connector, 3 pole
Impedance	<150 ohms balanced
Maximum level (Hi-Z)	>+25 dBu, balanced at 1% THD+N
Maximum level (600 ohm)	>+20 dBu, balanced at 1% THD+N

CONTROL/REMOTE — PREAMP	
Contact closure	(1) 3.5 mm captive screw connector, 3 pole
Contact closure pin configuration	Pin 1 = +10 VDC, 2 = volume/mute (variable voltage), 3 = Gnd
Volume control voltage range	0 V (mute) to 10 V (maximum volume)
Extron remote key pad control	(1) 3.5 mm captive screw connector, 3 pole

GENERAL	
Power supply	External Input: 100-240 VAC, 50-60 Hz Output: 12 VDC, 1 A, 12 watts
Power input requirements	12 VDC, 0.3 A
Temperature/humidity	Storage: -40 to +158 °F (-40 to +70 °C) / 10% to 90%, noncondensing Operating: +32 to +122 °F (0 to +50 °C) / 10% to 90%, noncondensing
Cooling	Convection, no vents
Mounting	
Rack mount	
MP 101	Yes, with optional 1U rack shelf or back of the rack mounting kit
MP 101 AAP	Yes, with optional faceplate or frame
Furniture mount	
MP 101	Yes, with optional mini under-desk mounting kit
MP 101 D	Yes, in a decorator-style opening
Pole mount	
MP 101	Yes, with optional mini projector mount kit
Enclosure type	Metal

Enclosure dimensions	
MP 101	1.7" H x 2.2" W x 3.0" D (1U high, one-eighth rack wide) (4.3 cm H x 5.6 cm W x 7.6 cm D) (Depth excludes connectors.)
MP 101 AAP	
Faceplate	1.4" H x 3.5" W x 0.1" D (3.5 cm H x 8.9 cm W x 0.3 cm D) (double space high AAP plate)
Device	1.1" H x 2.75" W x 1.8" D (2.8 cm H x 7.0 cm W x 4.6 cm D) (Depth excludes connectors.)
MP 101 D	
Faceplate	2.6" H* x 1.3" W x 0.1" D (6.6 cm H* x 3.3 cm W x 0.3 cm D) (Fits the opening in a 1 gang decorator-style faceplate.) *Height is 3.8" (9.7 cm) including mounting tabs.
Device	2.75" H x 1.1" W x 1.8" D (7.0 cm H x 2.8 cm W x 4.6 cm D) (Depth excludes connectors.)
Product weight	0.3 lbs (0.1 kg)
Vibration	ISTA 1A in carton (International Safe Transit Association)
Regulatory compliance	
Safety	CE, c-UL, UL
EMI/EMC	CE, C-tick, FCC Class A, ICES, VCCI
Warranty	3 years parts and labor

NOTE: All nominal levels are at ±10%.

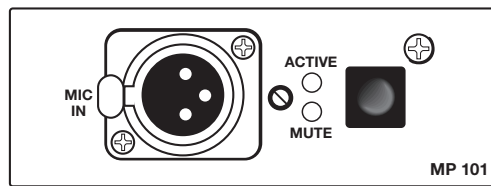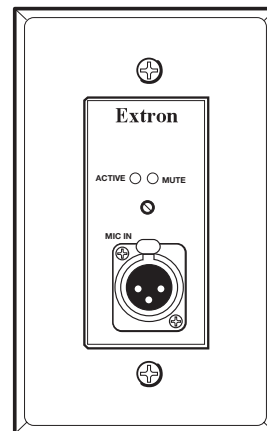| Model	Version Description	Part number
MP 101	Mic Preamp	60-718-10
MP 101 AAP	Black	60-718-11
MP 101 AAP	White	60-718-21
MP 101 D	Black	60-822-12
MP 101 D	White	60-822-22

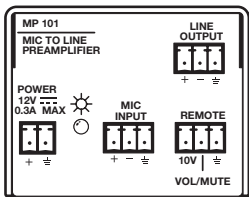# APPLICATION DIAGRAM
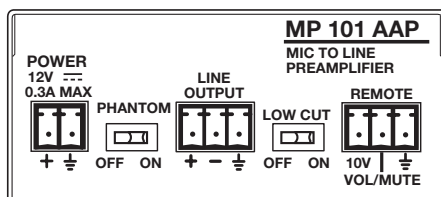

PANEL DRAWINGS

MP 101 - Front

MP 101 AAP - Front

MP 101 D - Front
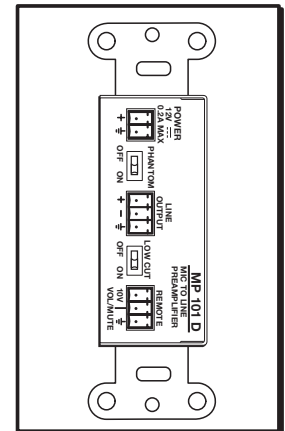
MP 101 - Back

MP 101 AAP - Back

MP 101 D - Back

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