

TUBE-TECH MP 1A **microphone pre-amplifier**

Description

The **TUBE-TECH microphone preamplifier MP 1A** is a combined two channel microphone and DI preamplifier.

Each amplifier consists of a microphone input transformer (with a static screen) with a step-up of +10 dB, a dual tube preamplifier with a stepped gain (5dB/step, passive and active), an output amplifier with two dual tubes in push-pull and an output transformer (with a static screen).

The microphone inputs are provided with a switchable -20dB attenuation PAD and switchable +48 V phantom-power.

The microphone input is capable of accepting levels of up to +6 dBU (1.55V) at 40 Hz without the **PAD** and +26 dBU (15.5V) at 40 Hz with the **PAD**, so the microphone input can be used as a unity gain line amplifier.

The high impedance **DI** input is unbalanced and placed in the circuit directly after the input transformer. The gain range for this input is +10dB to +60dB. When in use, the microphone input is disabled.

A high pass filter for the microphone and the DI input is switchable between **off**, **20 Hz** and **40 Hz**. It is advisable to use this filter in environments with high levels of very low frequency disturbances.

Gain errors between the two channels are less than 0.5 dB at any gain setting.

The two amplifier circuits are completely separated and the cross talk between channels is below -60 dB ranging from 20 Hz to 20 kHz.

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CONTROLS:

GAIN: The **gain** switch has a range from +20dB to +70dB in steps of 5dB.

LF cut: The high pass filter is selectable between **off**, **20 Hz** (12dB/octave) and **40 Hz** (6dB/octave).

Phantom power: The **phantom power** switch switches the +48V DC power on and off. The +48V DC is supplied to the microphone input via two 6,81 K Ω resistors.

PAD: This switch places a -20dB attenuation in front of the microphone transformer.

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