



Fredenstein
Professional Audio

Artistic
MIC-PRE

Operating Manual

Fredenstein Artistic Microphone Preamplifier

The Artistic microphone preamplifier is the first member of the Fredenstein Value Line of 500 series compatible products. The Artistic Pre features top of the line performance at a very affordable price. Key component to achieve this performance level is our new OPA2 discrete audio operational amplifier. As all Fredenstein products, it is not a copy of an older design, but a completely new circuitry manufactured in SMT technology. Matched and integrated dual input transistors guarantee vastly improved specifications compared to older designs. The OPA2, following the tradition of well known manufactures, is socketed and can be exchanged without tools. The industry standard pin-out makes it compatible with many manufactures. Another very important sound shaping component is the American-made steel-core output transformer, which has this smooth vintage sound without being dark or just “mid-rangy”.

A 100 KOhms high impedance direct input is located on the front-panel, it accepts balanced and unbalanced signals, the rear microphone input is automatically disconnected when a plug is inserted in the DI connector.

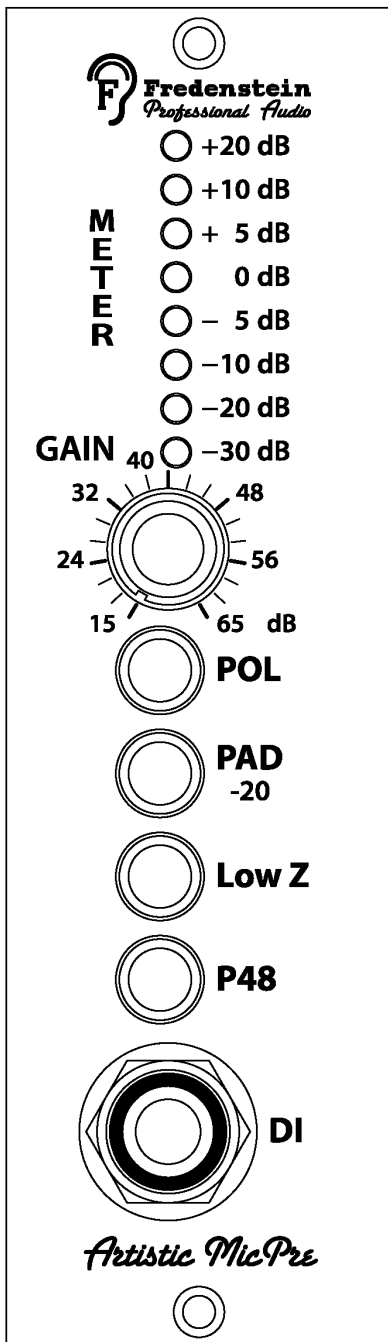
The features include a maximum gain of 65 dB, a 20 dB Pad, switchable polarity, selectable input impedance, and Phantom-Power support. Our new eight LED Peak-Meter with a 50 dB range gives the user a precise reading of the operating conditions.

As all Fredenstein products, the Artistic Pre is designed by a German-American team and manufactured in Taiwan.

Installation:

Please power down your rack or box first before inserting the Artistic Pre. The power requirements are not very demanding at a maximum of +/-50mA and Artistic Pre should work in weaker racks as well.

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Overview:

Output Peak Level Indicator: -30 dB to +20 dB
0dB = +4dBu

Rotary Control:

GAIN : Gain Control, minimum +15 dB
maximum +65 dB

Switches:

POL : reverse Output Polarity when lit
PAD : -20 dB Input Attenuator when lit
LOW Z : 300 Ohm Input Impedance when lit
P48 : +48 Volt Phantom Power when lit

DI : High Impedance balanced or unbalanced Input

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Gain Control:

Microphone Preamplifier Gain Control, minimum +15 dB, maximum +65 dB

POL – Polarity Control:

Pushing the POL switch selects the polarity, when lit (blue), the output polarity is reversed. Otherwise the true, non-reversed, polarity is selected (normal operation).

PAD – Input Attenuator:

Setting the PAD switch (orange light) activates a 20dB attenuator at the input allowing line level signals to pass through the preamplifier (note: Pad is not affecting the DI input)

Low Z – Low Inout Impedance:

When lit (green), the input impedance changes from 1500 Ohms to 300 Ohms. Some dynamic- and ribbon-microphones only work linear on a low input impedance.

P48 Phantom Power:

Most FET condenser microphones as well as some other microphones with built-in amplifiers require +48V Phantom Power. Setting the P48 switch (red light) enables +48V through the balanced microphone line. Please check your microphone documentation if you are not 100% sure. Enabling P48 on microphones not designed for P48 might cause severe damage to the microphone. The DI input is not supplied with Phantom Power.

DI – Direct Input:

The most common use for the DI input is to connect instruments like guitars directly to the Artistic Pre. The input impedance is greater than 100 KOhm to insure compatibility with most instrument pickups. After inserting a balanced (Tip-Ring-Sleeve) or an unbalanced (Tip-Sleeve) plug, the balanced microphone input through the box or rack is automatically disabled.

Technical Data:

Frequency Response	:	20 Hz – 20,000 Hz, +/- 1 dB
Distortion	:	< 0.02% at +4 dBu output level
Input Noise	:	< -127 dB
Input Impedance	:	> 1500 Ohms or 300 Ohms selectable
DI Impedance	:	> 100 KOhms
Max. Input Level	:	+ 24 dBu, Pad activated
Output Impedance	:	600 Ohms
Max. Output Level	:	+ 26 dBu
Input Attenuator	:	- 20 dB (switchable)

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