



## Flexiguy FG500

## Mic/Line/D.I. preamplifier module



### Specs and Operating Characteristics:

Rear Connector: Mic/Line input and Line outputs on card edge (xlr i/o on standard "500" racks)

Front Connector: Hi-Z 1/4" unbalanced (instrument) input

Nominal Gain figures: (actual gain can be somewhat dependent on source and load impedances)

- Mic/Line input to Line output: 6dB to 65dB or 20 to 70dB depending on operating mode (see below)
- Front Panel D.I. input to Line output: 0dB to 59dB or 14dB to 64dB depending on operating mode

Max Input Levels: (with pad switched out)

- +19dBu at Mic/Line input
- +22dBu at D.I. input

Input Impedance: (changes depending on operating mode - see description below)

- Mic/Line input in "Guy" mode ranges from 3,900 to 600 Ohms with gain changing min to max
- Mic/Line input in "Gal" mode is fixed at nominal 1200 Ohms at any gain
- Mic/Line input with Pad engaged is nominal 1200 Ohms in both modes and at any gain
- Unbalanced D.I. 1/4" Input is 100,000 Ohms

Output Impedance:

- nominal 150 Ohms balanced at Main output
- nominal 50 Ohms unbalanced at alternate output (1/4" Opt Out on Purple Audio Sweet Ten rack)

Clip Level:

- +24 dBu at balanced output
- +20.5 dBu at unbalanced output

Equivalent Input Noise EIN:

- -119dB at Mic/Line input
- -111dB at D.I. input

Power Consumption:

- 55mA @  $\pm 15$ Vdc = 1.65Watts
- +48Vdc current is mic dependent - limited to max 15mA with all pins of mic input shorted

The Flexiguy is a microphone/line/direct inject (D.I.) preamplifier that offers up detailed and flexible tone, useful and controlled harmonic contribution and a somewhat "tape-like" dynamic response.

The overall architecture and design, careful component selection and custom parts manufactured exclusively for the Flexiguy combine to make this a unique device that is anything but a one-trick pony. Overload characteristics, when pushed, are designed to be creatively useful. When operated more conservatively, working between the two operating modes (described below) and with or without the impedance converting pad engaged, the utility of this module is quite broad.

While Flexiguy is primarily intended as a mic preamp, its large core input transformer and D.I. input can easily handle line level input sources (i.e. for additional makeup gain, tonal coloration, line driving, or other creative purposes). Its transformer-balanced output is capable of driving loads as low as 300 Ohms. When used in Purple Audio Sweet Ten racks you get access, via the 1/4" Opt Out connector, to an additional unbalanced output which can drive even heavier loads.

