







## **Description**

The Model IE-6P Microphone Preamplifier is intended for use with precision, prepolarized, 1/2 inch, condenser microphones.

Compared to a traditional, but expensive, air condenser microphone capsule with its associated preamplifier, a prepolarized microphone capsule with an appropriate preamplifier can significantly reduce the cost associated with precision sound measurements.

The IE-5P is mechanically stable and rugged, with the performance you would expect from a precision microphone preamplifier. Its stainless steel housing is designed to withstand the rigors of use in the field.

Measurement performance with the IE-5P is of the highest standard. The IE-5P is extremely wide range, has a very low electronic noise floor and a wide dynamic range. The low output impedance allows for driving relatively long microphone lines. The Mini QG® 4-pin connector is mechanically reliable and economical. A standard 3-conductor, shielded microphone cable is all that is required.

## Technical Specifications (IE-5P Preamplifier Without Microphone)

17Hz to 110kHz Frequency Response re: 1kHz,  $\pm 0.1dB$ -3dB lower limit freq. < 2Hz Phase Linearity < 1° 10Hz to 20kHz Attenuation (typical) 0.05dB $< 5\mu V (2.0\mu V \text{ typical})$ Electronic Noise A-weight Flat, 20Hz -20kHz  $< 8\mu V (5.0\mu V \text{ typical})$ Maximum Output Voltage (IE-35) 8 Vp (< -50dB THD) Max dB w/ 50 mV/Pa mic (IE-35) 133dB Max dB w/ 12.5 mV/Pa mic (IE-35) 145dB Maximum Output Voltage (IE-45) 28 Vpp (< -50dB THD) Max dB w/ 50 mV/Pa mic (IE-45) 144dB Max dB w/ 12.5 mV/Pa mic (IE-45) 156dB Temperature Sensitivity -40°C to +65°C +0.5dB**Humidity Sensitivity**  $(0-95\% \text{ RH, non cond.}) \pm 0.5 \text{dB}$ 

Length 90mm (3.55")

Connections Input 11.7mm-60 UNS

Diameter

(0.4606-60 UNS)
Mic Thread
Output Switchcraft Mini
OG TA4F

 $10 \text{ G}\Omega/0.15\text{pF}$ 

12.7mm (0.50")

 $< 50\Omega$ 

Power Excitation Voltages 12 V (IE-35), 36V (IE-45)

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Input Impedance

Output Impedance

Dimensions

Web: www.ivie.com Email: ivie@ivie.com