







## Description

The Model IE-6P Microphone Preamplifier is intended for use with precision, 1/2 inch, air condenser microphones. It provides polarization voltages of either 200 VDC or 28 VDC and is compatible with numerous microphone capsules from several different manufactures.

When combined with a precision microphone and operated as an integrated mic/preamp, the IE-6P conforms to IEC 61672 Class 1 requirements

The IE-6P 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-6P is of the highest standard. The IE-6P 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-6P Preamplifier Without Microphone)

Frequency Response re: 1kHz, + 0.1dB17Hz to 110kHz -3dB lower limit freq. < 2Hz

200 or 28 VDC Polarization Voltages Selectable

< 1° Phase Linearity 10Hz to 20kHz

Attenuation (typical)

Electronic Noise  $< 5\mu V (2.0\mu V \text{ typical})$ A-weight Flat, 20Hz -20kHz  $< 8\mu V (5.0\mu V \text{ typical})$ 

8 Vp (< -50dB THD) Maximum Output Voltage (IE-35) Max dB w/ 50 mV/Pa mic (IE-35) 133dB Max dB w/ 12.5 mV/Pa mic (IE-35) 145dB

28 Vpp (< -50dB THD) Maximum Output Voltage (IE-45)

Max dB w/ 50 mV/Pa mic (IE-45) Max dB w/ 12.5 mV/Pa mic (IE-45) 156dB

Temperature Sensitivity -40°C to +65°C ±0.5dB

Humidity Sensitivity (0-95% RH, non cond.) ±0.5dB

Input Impedance  $10~\text{G}\Omega/0.15\text{pF}$ 

Output Impedance  $< 50\Omega$ 

Dimensions Diameter 12.7mm (0.50") Length 115.6mm (4.55")

Connections Input 11.7mm-60 UNS

> (0.4606-60 UNS) Mic Thread

0.05dB

Output Switchcraft Mini QG TA4F

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

1605 N. West State Street, Lehi, UT 84043 Phone: 801-766-7600 Fax: 801-766-8282

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