

ICP Microphone Preamplifier

Model: YG-201

The YG-201 ICP Microphone Preamplifier serves to condition the output signal of 1/2 inch, precision, pre-polarized, condenser microphones. This approach significantly reduces the costs associated with precision sound measurements by eliminating the classical, laboratory style preamplifier and allowing signal transmission over ordinary coaxial cables.



FEATURES

- Compatible with precision, pre-polarized, condenser microphones
- Operates with economical, ICP® sensor power, thereby reducing signal conditioning costs
- Connects directly to measurement instruments and frequency analyzers equipped with ICP® sensor power

USES

- Precision sound pressure measurements
- Acoustic array measurements
- Vibro-acoustic testing with integrated accelerometer/ microphone measurement systems

SPECIFICATIONS:

Frequency Response (ref. 250Hz):	16Hz to 100 kHz, ± 0.5 dB
Nominal Attenuation:	-0.3dB
Input Impedance:	2G Ω , <0.4pF
Output Impedance:	100 Ω
Maximum Output Voltage:	5.0Vrms (Corresponding to 134dB SPL for microphone sensitivity of 50mV/Pa)
Noise:	<5.0 μ V A-weighting <15.0 μ V Lin., 22.4Hz - 22.4 kHz
Power Requirements:	ICP supply, 2 to 20mA. Nominal 4mA
Connector Type:	BNC Connector
Dimensions:	$\varnothing 12.7$ mm (1/2") \times 70mm (including connector)
Thread for Preamplifier Mounting:	11.7mm -60UNS (for standard 1/2 inch microphones)
Operating Temperature Range:	-40°C to +85°C.
Humidity:	0 to 98%RH