

# Product Specifications

## PG81 Cardioid Condenser Instrument Microphone

### Overview

PG81 Cardioid Condenser Instrument Microphone is a professional quality flat-response microphone designed to be used in sensitive acoustic instrument applications. With rugged durability and excellent sound, this versatile microphone comes with an on/off switch, swivel adapter, carrying pouch and choice of with XLR cable, or without. Phantom power or included AA battery required.

### Features

- Flat frequency response is wide and uniform. Consistent sensitivity through frequency range.
- Cardioid polar pattern picks up the most sound from in front of the microphone and some sound from the sides. Less susceptible to feedback in high volume settings.
- Condenser cartridge has a lightweight, sensitive diaphragm. Precisely and smoothly captures sound nuances.
- Powered by AA battery or phantom power supply.
- Internal shock mount for reduced handling noise.
- Durable metal construction.
- On/off switch for onstage control.

### Available Models

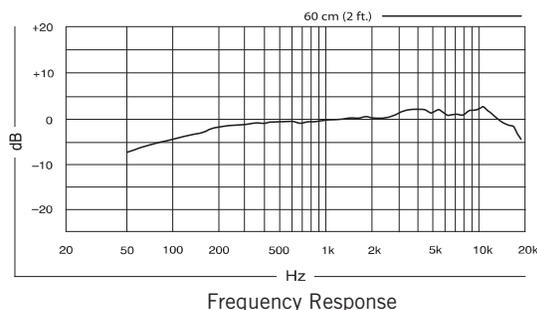
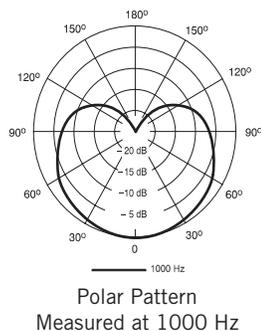
<b>PG81-XLR</b>	Includes a 15 ft (4.57m) XLR to XLR Cable, Microphone Clip, 5/8" to 3/8" Thread Adapter, and a Storage Bag.
<b>PG81-LC</b>	Includes a Microphone Clip, 5/8" to 3/8" Thread Adapter, and a Storage Bag.

### Specifications

Microphone Type	Condenser (electret bias)
Polar Pattern	Cardioid (unidirectional), symmetrical about axis
Frequency Response	40 to 18,000 Hz
Polarity	Positive pressure on diaphragm produces positive voltage on pin 2 relative to pin 3 of microphone output connector
Output Impedance (at 1000 Hz)	600 ohms
Sensitivity (at 1000 Hz)	-48 dBV/Pa, (4.0 mV), 1 Pascal = 94 dB SPL
Electromagnetic Hum Sensitivity	-7 dB equivalent SPL in a 1 millioersted field (60 Hz)
Recommended Input Load Impedance	800 ohms minimum
Output Clipping Level (1 kHz, 1 % THD)	2000 ohm load 13 dBV (0.22 V) (phantom) -17 dBV (0.14 V) (battery)
Maximum SPL	2000 ohm load: 131 dB (phantom), 127 dB (battery)
Self-Noise (Equivalent SPL)	20 dB typical, A-weighted
Dynamic Range (maximum SPL, 2k ohm load, to A-weighted noise level)	111 dB (phantom); 107 dB (battery)
Signal-to-Noise Ratio	68 dB (IEC 651)* at 94 dB SPL
Power	Phantom Power Supply Voltage: 11 to 52 Vdc Current Drain: 2.0 mA max at 52 Vdc Maximum External Voltage Applied to Pins 2 and 3 with respect to Pin 1: +52 Vdc Reverse polarity protected to: 100 Vdc Battery Power Recommended: 1.5 V alkaline AA size (NEDA 15A) Life: up to 10,000 hour
Switch	Built-in On/Off switch
Case	Steel and brass construction with black painted finish
Environmental Conditions	This microphone operates over a temperature range of -29 to 57 degrees Celsius (-20 to 135 degrees Fahrenheit), and at a relative humidity of 0 to 95%.
Electromagnetic Hum Sensitivity	-7 dB equivalent SPL in a 1 millioersted field (60 Hz)
Weight	Net: 250 g (8.8 oz) less battery Packaged: 880 g (1 lb 15 oz)



PG81



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