



Model PG81 Specification Sheet

DESCRIPTION

The Shure PG81 is a unidirectional (cardioid) condenser instrument microphone that has a sensitive, flat response ideal for use with acoustic instruments.

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 Ω

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)

Switch

Built-in On/Off switch

Recommended Input Load Impedance

800 Ω minimum

Output Clipping Level (1 kHz, 1 % THD)

2000 Ω load -13 dBV (0.22 V) (phantom)
..... -17 dBV (0.14 V) (battery)

Maximum SPL

2000 Ω load 131 dB (phantom), 127 dB (battery)

Self-Noise (Equivalent SPL)

20 dB typical, A-weighted

Dynamic Range (maximum SPL, 2k Ω 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 hours

Connector

Three pin professional audio connector (male XLR type)

Case

Steel and brass construction with black painted finish

Environmental Conditions

This microphone operates over a temperature range of -29 to 57 degrees Celcius (-20 to 135 degrees Fahrenheit), and at a relative humidity of 0 to 95%.

Weight

Net - 250 g (8.8 oz) less battery

Packaged - 880 g (1 lb 15 oz)

CERTIFICATION

Eligible to bear CE Marking. Conforms to European EMC Directive 89/336/EEC. Meets applicable tests and performance criteria in European Standard EN55103 (1996) parts 1 and 2, for residential (E1) and light industrial (E2) environments.

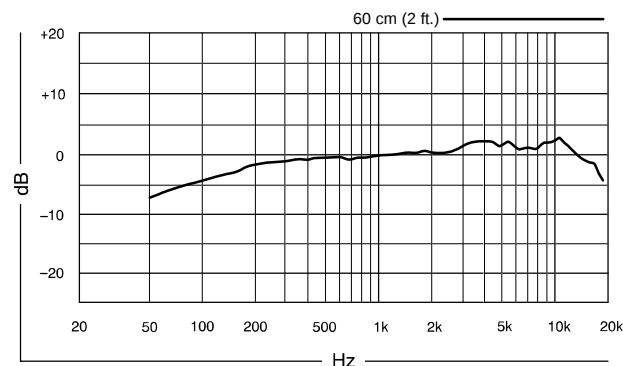
*S/N ratio is difference between microphone output at 94 dB SPL and microphone self-noise A-weighted.

FURNISHED ACCESSORIES

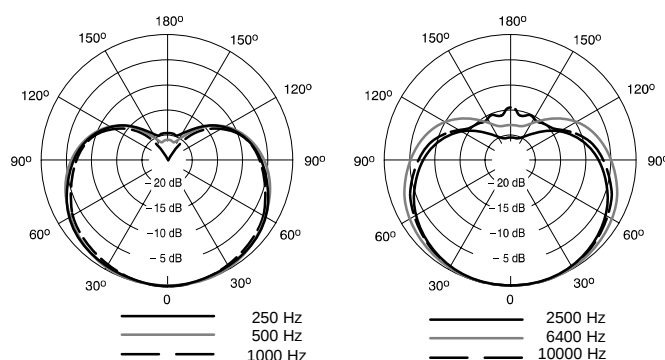
4.57 m (15ft.) Cable (XLR-XLR) 95C2153
Microphone Clip (standard 5/8 in. -27 thread) A25D
3/8" to 5/8" Thread Adapter 31A1856
Padded Carrying Case 26A16

OPTIONAL ACCESSORIES (include quantities)

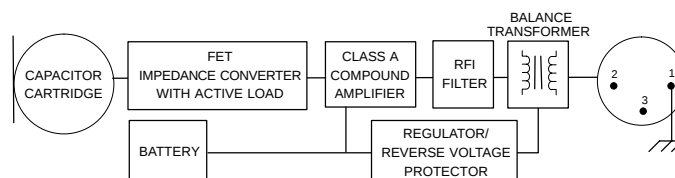
7.6 m (25 ft.) Cable (XLR-XLR) C25J
Windscreen A3WS
Phantom Power Supply PS1A
Isolation Mount A53M



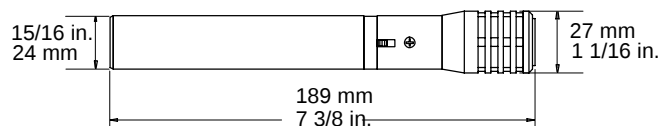
FREQUENCY RESPONSE



POLAR PATTERNS



INTERNAL CONNECTIONS



DIMENSIONS



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