

### 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, 2kΩ 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

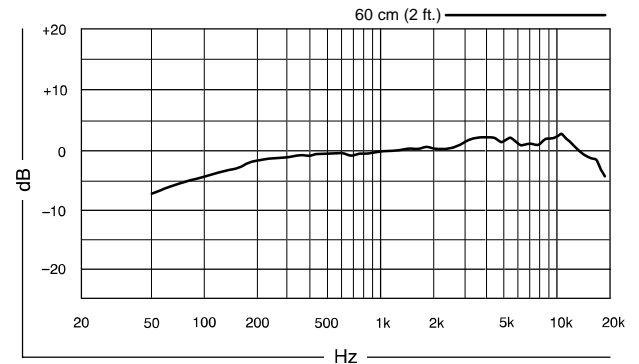
### OPTIONAL ACCESSORIES (include quantities)

7.6 m (25 ft.) Cable (XLR-XLR) ..... C25J

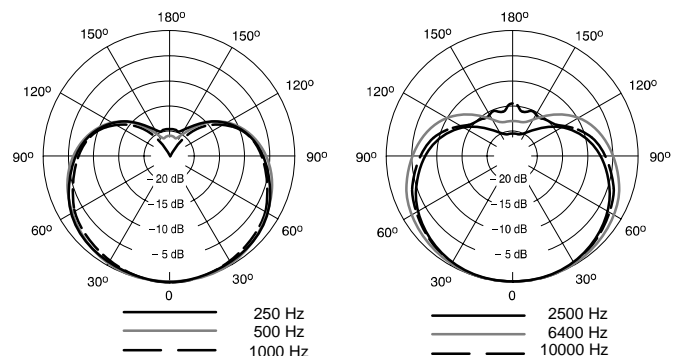
Windscreen ..... A3WS

Phantom Power Supply ..... PS1A

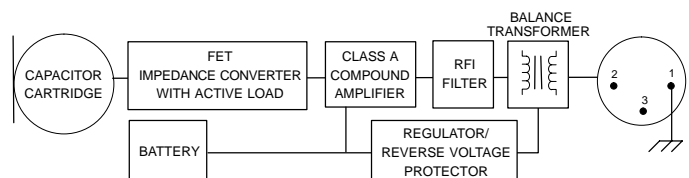
Isolation Mount ..... A53M



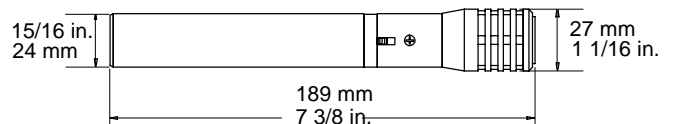
FREQUENCY RESPONSE



POLAR PATTERNS



INTERNAL CONNECTIONS



DIMENSIONS



SHURE Incorporated Web Address: <http://www.shure.com>  
222 Hartrey Avenue, Evanston, IL 60202-3696, U.S.A.

Phone: 847-866-2200 Fax: 847-866-2279

In Europe, Phone: 49-7131-72140 Fax: 49-7131-721414

In Asia, Phone: 852-2893-4290 Fax: 852-2893-4055

Elsewhere, Phone: 847-866-2200 Fax: 847-866-2585