

PZM® -6D

The PZM-6D is a Pressure Zone Microphone designed for professional recording, sound reinforcement, teleconferencing and broadcasting. Its low profile, unobtrusive appearance is appreciated in conference rooms, as well as on television, film and video productions. When suspended over an orchestra on a clear panel, the PZM practically disappears. Its miniature, permanently attached cable also reduces visual clutter.

The PZM-6D has a switchable dual frequency response: rising or flat. The "rising" position adds brilliance. This makes it useful whenever a crisp attack is desired, such as on percussion, drums or piano. The user can get a bright sound without boosting high frequencies on the recording console; the benefit is lower noise. The "flat" position provides a smooth, flat high-frequency response for natural sound reproduction.

Capable of withstanding up to 150 dB SPL without distortion, the PZM will never overload in practical use. Its electret condenser capsule provides a wide, smooth frequency response from 20 Hz to 20 kHz. Self noise is low, and sensitivity is high enough to override mixer noise in distant-miking applications.

Like other Pressure Zone Microphones, the 6D utilizes the Pressure Recording Process™ in which a miniature condenser microphone capsule is arranged very close to a sound-reflecting plate or boundary. The capsule is mounted in the "Pressure Zone" just above the boundary, a region where sound coming directly from the sound source combines in phase with sound reflected off the boundary. The benefits are a wide, smooth frequency response free of phase interference, excellent clarity and "reach," a hemispherical polar pattern and uncolored off-axis response.

Operating Instructions

The PZM-6D features self-contained electronics in the attached XLRM connector housing, which allows it to plug directly into a standard 12-48 VDC phantom power supply.

Crown makes an AC-powered model PH-4B supply for powering up to four PZMs. Also available is a single-channel AC/battery supply. Crown model PH-1A. For special applications, you can make your own battery supply as suggested in Fig. 3.

Using 2-conductor shielded microphone cable, plug the microphone into a phantom power supply. Connect the power supply output to a

PRESSURE ZONE MICROPHONE®



Specifications

Type: Pressure Zone Microphone.

Transducer: Electret condenser.

Frequency response: 20 Hz to 20 kHz. See Fig. 1.

Polar pattern: Hemispherical when used on a floor, wall or ceiling.

Open circuit sensitivity: 7 mV/Pa* (-43 dB re 1 volt/Pa).

Power sensitivity: -43 dB re 1 mW/Pa, EA sensitivity: -135 dBm.

Impedance: 240 ohms, balanced. Recommended minimum load impedance 1000 ohms.

Self-Noise: 20 dB equivalent sound pressure level, A-weighted.

S/N ratio: 74 dB at 94 dB SPL.

Maximum Sound Pressure Level: 150 dB SPL at the microphone produces 3% THD.

Polarity: Positive pressure on the diaphragm produces positive voltage on pin 2 with respect to pin 3 of the output connector.

Operating voltage: Phantom power, 12-48 volts DC, positive voltage on pins 2 and 3 with respect to pin 1 of the output connector.

Current drain: 1.1 mA.

Cable: Permanently attached 15-foot (4.58-m) black cable with an XLRM connector.

Switch: Frequency-response select switch for rising or flat response.

Color: Black.

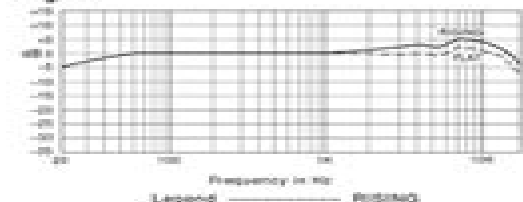
Dimensions: 3-in. x 2.5-in. x .375-in. (7.62-cm x 6.35-cm x .95-cm). See Fig. 2.

Included accessories: PZM windscreens, carrying pouch.

Optional accessories: PH-4B phantom power supply (4 channels, AC powered), PH-1A phantom power supply (1 channel, battery or AC-adaptor powered).

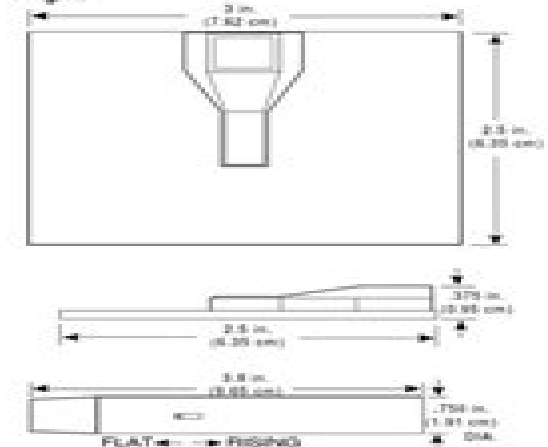
* 1 pascal = 10 dynes/cm² = 10 microbars = 94 dB SPL.

Fig. 1



Low frequency response depends on size of surface.

Fig. 2



Realistic Pzm Microphone Manual

Canada Council. Touring Office



Realistic Pzm Microphone Manual:

Facilities Directory Canada Council. Touring Office,1988 Studio Sound and Broadcast Engineering ,1991

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