

GLM-200

The Crown GLM-200, or "Great Little Mic," is a miniature hypercardioid electret condenser microphone designed for professional recording and sound reinforcement. It offers all the quality of large studio microphones, yet is nearly invisible in use.

Made of a rugged, resilient space-age material, the GLM-200's molded housing is designed to resist damage from demanding professional use.

The GLM can be clipped or taped onto an acoustic guitar, sax or flute to allow the performer freedom of movement. It can be attached to drum rims to pick up a drum set without the unsightly clutter of boom stands. Suspended over a choir or orchestra, or hidden on a film set, the GLM disappears in use yet provides excellent sound quality.

When used as a lavalier microphone, the GLM-200 rejects background noise and room acoustics compared to a conventional omnidirectional lavalier.

Frequency response is wide and smooth, with emphasized high frequencies for presence and brilliance. Other benefits include excellent transient response, minimal off-axis coloration and high overload level (131 dB SPL).

The frequency response of large microphone capsules often is degraded by the microphone housing (due to sound diffraction). In contrast, the GLM's housing is designed to actually improve the high-frequency response of the microphone capsule.

Being a hypercardioid microphone, the GLM-200 has excellent rejection of off-axis sounds (over 25 dB at the rear nulls); this rejection is uniform with frequency. The hypercardioid pattern increases gain-before-feedback and reduces pickup of room acoustics, background noise and unwanted sounds behind the microphone.

The GLM output is balanced, low impedance, which allows long cable runs without hum pickup or high-frequency loss.

The microphone connects directly to a 12 to 48 volt phantom power supply; no interface is required. See the Operating Instructions for more detail.

Included with the GLM-200 is a GLM-UM Universal Mount, a GLM-TB Tie Bar, GLM-BC Belt Clip and a GLM-WS2 Windscreen for vocal use. The omnidirectional GLM-100 is preferred over the GLM-200 if you need:

- * Less wind noise
- * Less pickup of mechanical vibration
- * Deep low-frequency response down to 20 Hz
- * 150 dB maximum SPL.

MINIATURE HYPERCARDIOID MICROPHONE



Specifications

Type: Miniature hypercardioid condenser.

Element: Electret condenser.

Frequency Response (typical): 60 Hz to 20,000 Hz. See Fig. 1.

Polar Pattern: Hypercardioid. (see Fig. 2).

Impedance: 150 ohms rated (100 ohms actual), balanced. Recommended minimum load impedance 1000 ohms.

Open Circuit Sensitivity: 6 mV/Pa* (-44.5dB/Pa*).

Power Sensitivity: -40.5 dBm/Pa*. EIA rating -136 dBm.

Equivalent Noise Level: 31 dB SPL typical (0 dB = .0002 dyne/cm²), A-weighted.

S/N Ratio: 63 dB at 94 dB SPL.

Maximum Sound Pressure Level: 131 dB SPL produces 3% THD.

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

Operating Voltage: 12 to 48 volts DC, positive voltage on pins 2 and 3 with respect to pin 1 of output connector (standard phantom-powering configuration).

Current Drain: 1.4 mA.

Materials: PVC housing, steel electronics housing.

Finish: Black.

Cable: 8-foot, black, permanently attached cable with rugged strain/flex relief and 3-pin pro audio connector.

Weight (including cable, minus connector): 1 ounce (27.5 grams).

Weight (including cable and connector): 3.7 ounces (103.5 grams).

Dimensions: See Fig. 3 on reverse side.

Included Accessories: GLM-UM Universal Mount, GLM-TB Tie Bar, GLM-BC Belt Clip and GLM-WS2 Windscreen.

Optional Accessories: Each available separately. Crown PH-4B Phantom Power Supply (AC powered, 4 channels), Crown PH-1A Battery/PS-24 Phantom Supply (battery powered, single channel, 375 hours battery life with GLM-200).

Fig. 1

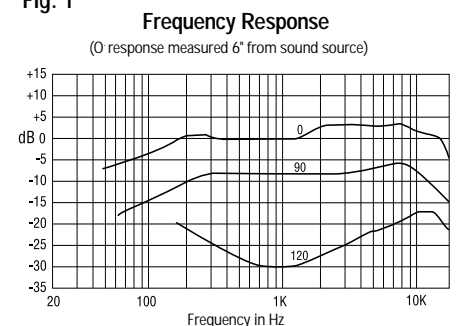
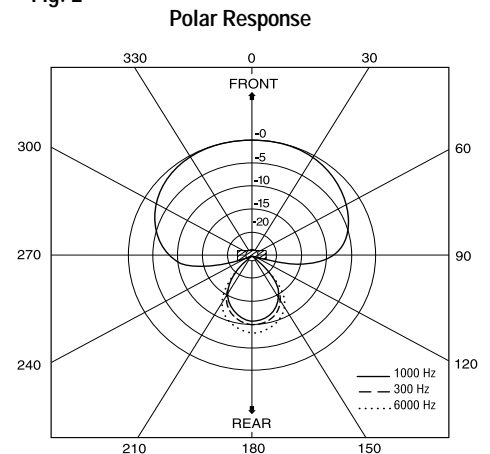


Fig. 2



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



Fig. 3

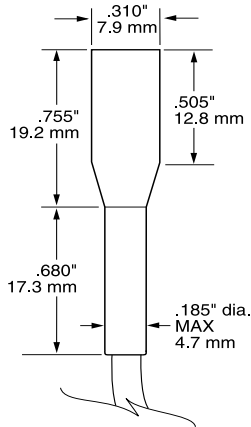
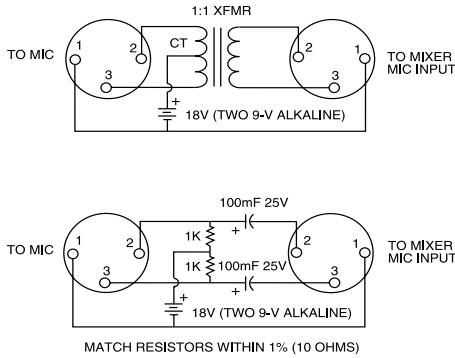


Fig. 4



Operating Instructions

The GLM requires 12 to 48 volts phantom powering to operate. Crown makes an AC-powered model PH-4B supply for powering up to four GLMs. Also available is a single-chan-

nel battery/AC adapter supply, Crown model PH-1A. For special applications you can make your own battery supply as suggested in Fig. 4.

Using a microphone extension cord, plug the GLM into a phantom power supply. Connect the power-supply output to a mixer mic input, or if your mixer has phantom power built in, plug the GLM directly into a mixer mic input.

For vocal use, place the included GLM-WS2 Windscreen on the microphone to reduce breath popping. The omnidirectional GLM-100 is preferred for use outdoors in windy conditions.

The front of the microphone is indicated by the word "FRONT" on the microphone housing.

Although the cable is rugged, excessive abuse such as tugging and twisting will shorten its life. It should last indefinitely if treated with care. The cable has been kept short (8 feet) to allow easy wrapping and to reduce the amount of thin cable on stage.

The microphone has a rising frequency response for presence and brilliance, which is suitable for most applications.

As with all electret condenser microphones, the GLM should be kept out of hot environments (greater than 130 degrees F or 54.5 degrees C). Following this suggestion will ensure years of reliable performance from the mic capsule.

Detailed GLM Application Notes are in the Crown Microphone Application Guide available free from your dealer or directly from Crown.

Architects' and Engineers' Specifications

The microphone shall be the Crown GLM-200 or equivalent. The microphone shall be a hypercardioid electret condenser type requir-

ing 12 to 48 volts phantom powering. A smooth frequency response from 60 Hz to 20,000 Hz shall be obtained, with a uniform off-axis response.

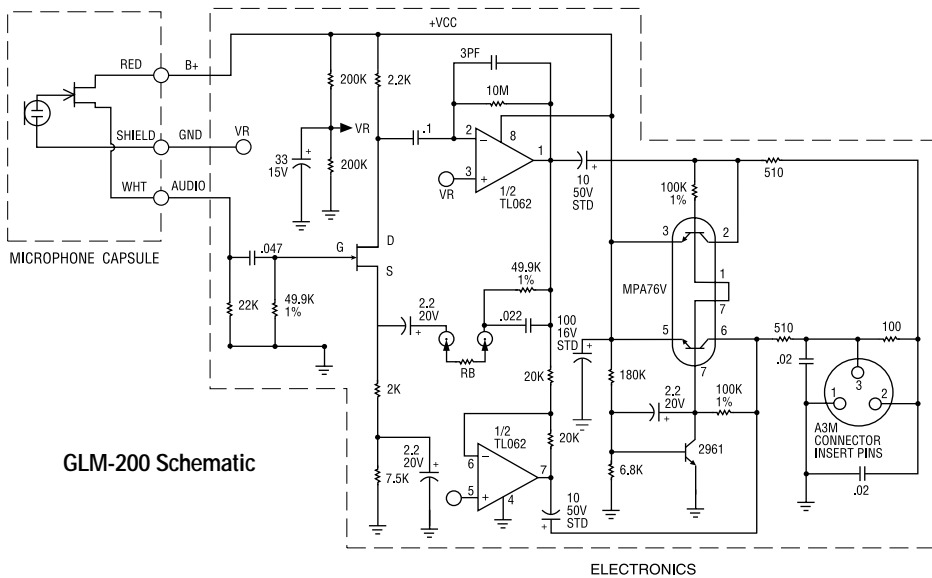
The microphone shall have an open-circuit sensitivity of 6 mV/Pa. A permanently attached, 8 foot (2.5m), two-conductor, shielded cable with XLR-type connector shall be supplied with the microphone. The microphone shall accept a 131 dB SPL input while providing no greater than 3% THD (open circuit termination). Equivalent noise shall be 31 dBA typical (0 dB = .0002 dyne/cm²). The Crown GLM-200 microphone is specified.

Warranty

Crown professional microphones are guaranteed unconditionally against malfunction from any cause for a period of three years from date of original purchase. Please refer to the enclosed full warranty statement for more detail.

Service

If the microphone fails to work, replace or repair any additional mic cables and check the power supply. If service is required, return the microphone in its original packaging to Crown's Service Department at Plant 2 SW, 1718 W. Mishawaka Road, Elkhart, IN 46517. For further assistance or technical support call (800) 342-6939.



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