ATM230

audio-technica

Hypercardioid Dynamic Instrument Microphone

artist series live sound microphones

Architect's and Engineer's Specifications

The microphone shall be a moving coil dynamic. It shall have a hypercardioid polar pattern with a uniform 100° angle of acceptance and a frequency response of 30 Hz to 12,000 Hz. Nominal open-circuit output voltage shall be 2.2 mV at 1V, 1 Pascal. Output shall be low impedance balanced (600 ohms).

The output of the microphone shall be a 3-pin XLRM-type connector.

The microphone shall be 82.5 mm (3.2") long and have a maximum diameter of 38.0 mm (1.5"). Weight shall be 292 g (10.3 oz). The microphone shall include a stand clamp, drum mount and a soft protective pouch.

The Audio-Technica ATM230 is specified.

Features

- **Tailored to capture sound from rack and floor toms, snare drums and other percussion instruments**
- **Handles very high SPL at close range**
- **Hypercardioid polar pattern reduces pickup of sounds from the sides and rear, improving isolation of desired sound source**
- **Low-profile design permits versatile placement around drum kit**
- **Rugged, all-metal construction ensures dependable performance in live-music and studio applications**
- **Integral $^5/_8$"-27 threaded stand clamp works with included drum mount to permit mounting of mic to drum rim**

Description

The ATM230 is a dynamic microphone with a hypercardioid polar pattern. It is designed specifically for musical instrument pickup in the studio and on stage.

The hypercardioid polar pattern of the microphone is more sensitive to sound originating directly in front of the element, making it useful for controlling feedback and reducing pickup of unwanted sounds.

The output of the microphone is a 3-pin XLRM-type connector.

The microphone is enclosed in a rugged housing and is outfitted with an integral $^5/_8$"-27 threaded stand clamp. The included AT8665 drum mount screws into the stand clamp to permit mounting of the ATM230 to the rim of a drum. A soft protective pouch is also included.

Operation and Maintenance

Output is low impedance (Lo-Z) balanced. The signal appears across Pins 2 and 3; Pin 1 is ground (shield). Output phase is "Pin 2 hot"— positive acoustic pressure produces positive voltage at Pin 2.

To avoid phase cancellation and poor sound, all mic cables must be wired consistently: Pin 1-to-Pin 1, etc.

Avoid leaving the microphone in the open sun or in areas where temperatures exceed 110° F (43° C) for extended periods. Extremely high humidity should also be avoided.

Take care to keep foreign particles from entering the windscreen. An accumulation of iron or steel filings on the diaphragm, and/or foreign material in the windscreen's mesh surface, can degrade performance.

Specifications

Element	Dynamic
Polar pattern	Hypercardioid
Frequency response	30-12,000 Hz
Open circuit sensitivity	–54 dB (1.9 mV) re 1V at 1 Pa
Impedance	600 ohms
Weight	292 g (10.3 oz)
Dimensions	82.5 mm (3.2") long, 38.0 mm (1.5") maximum diameter
Output connector	Integral 3-pin XLRM-type
Audio-Technica case style	R2
Accessories furnished	AT8665 drum mount for $^5/_8$"-27 threaded adapter; $^5/_8$"-27 to $^3/_8$"-16 threaded adapter; soft protective pouch

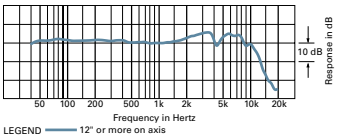
In the interest of standards development, A.T.U.S. offers full details on its test methods to other industry professionals on request.

1 Pascal = 10 dynes/cm^2 = 10 microbars = 94 dB SPL

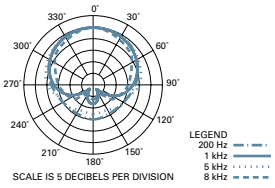
[1] Typical, A-weighted, using Audio Precision System One.

Specifications are subject to change without notice.

frequency response: 30 – 12,000 Hz



polar pattern



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