

# ATM250

artist series live sound microphones

## Hypercardioid Dynamic Instrument Microphone



### Features

- Frequency response tailored for kick drum, percussion, brass and other highly dynamic instruments
- Ideal for voiceovers, the ATM250 offers very full sound on close-up vocals and dialogue
- Handles very high SPL at close range
- Big, warm low-frequency response with excellent presence
- Hi-ENERGY® neodymium magnet for improved output and transient response
- Hypercardioid polar pattern provides maximum feedback rejection and isolation of desired sound source
- Rugged all-metal design and construction for years of trouble-free use
- Corrosion-resistant contacts from gold-plated XLRM-type connector
- Isolation clamp provides secure mounting, versatile positioning and effective dampening of unwanted mechanical noise

### Description

The ATM250 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. The included AT8471 isolation clamp permits mounting on any microphone stand with 5/8"-27 threads. 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.

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.

### 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 40 Hz to 15,000 Hz. Nominal open-circuit output voltage shall be 1.9 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 127.5 mm (5.02") long and have a diameter of 55.0 mm (2.17"). Weight shall be 252 grams (8.9 oz). The microphone shall include an isolation clamp and a soft protective pouch.

The Audio-Technica ATM250 is specified.

### Specifications

Element	Dynamic
Polar pattern	Hypercardioid
Frequency response	40-15,000 Hz
Open circuit sensitivity	-54 dB (1.9 mV) re 1V at 1 Pa
Impedance	600 ohms
Weight	252 g (8.9 oz)
Dimensions	127.5 mm (5.02") long, 55.0 mm (2.17") diameter
Output connector	Integral 3-pin XLRM-type
Audio-Technica case style	R9
Accessories furnished	AT8471 isolation clamp for 5/8"-27 threaded stands; 5/8"-27 to 3/8"-16 threaded adapter; soft protective pouch

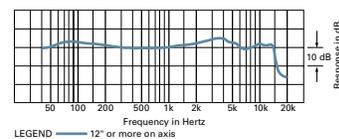
In the interest of standards development, A.T.U.S. offers full details on its test methods to other industry professionals on request.

1 Pascal = 10 dynes/cm<sup>2</sup> = 10 microbars = 94 dB SPL

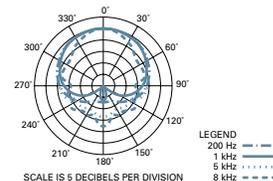
Specifications are subject to change without notice.



frequency response: 40–15,000 Hz



polar pattern



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