



- Unique side-address stick design maximizes placement options with minimal obstructions
- Uncompromising sound quality for overheads, percussion, acoustic guitar, strings and other acoustic instruments
- Integral 80 Hz HPF switch and 10 dB pad
- Durable performance for professional applications
- Cardioid polar pattern reduces pickup of sounds from the sides and rear, improving isolation of desired sound source
- Rugged, all-metal design and construction for years of trouble-free use
- Includes isolation clamp for shock protection, secure mounting and easy positioning

The ATM450 is intended for use in professional applications where remote power is available. It requires 11V to 52V DC phantom power, which may be provided by a mixer or console, or by a separate, in-line source such as the Audio-Technica AT8801 single-channel or CP8506 four-channel phantom power supplies.

Output from the microphone's XLRM-type connector 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.

An integral 80 Hz hi-pass filter provides easy switching from a flat frequency response to a low-end roll-off. The roll-off position reduces the pickup of low-frequency ambient noise (such as traffic, air-handling systems, etc.), room reverberation and mechanically-coupled vibrations.

The ATM450 is also equipped with a switchable 10 dB pad that lowers the microphone's sensitivity, thus providing higher SPL capability for flexible use with a wide range of performers and system configurations.

The ATM450 includes an AT8471 isolation clamp to provide secure mounting, versatile positioning and effective dampening of unwanted mechanical noise.

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.

## ATM450 SPECIFICATIONS<sup>1</sup>

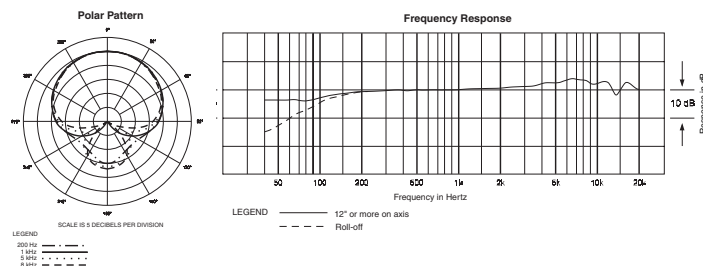
<b>ELEMENT</b>	Fixed-charge back plate permanently polarized condenser
<b>POLAR PATTERN</b>	Cardioid
<b>FREQUENCY RESPONSE</b>	40-20,000 Hz
<b>LOW FREQUENCY ROLL-OFF</b>	80 Hz, 18 dB/octave
<b>OPEN CIRCUIT SENSITIVITY</b>	-41 dB (8.9 mV) re 1V at 1 Pa*
<b>IMPEDANCE</b>	200 ohms
<b>MAXIMUM INPUT SOUND LEVEL</b>	152 dB SPL, 1 kHz at 1% T.H.D.
<b>DYNAMIC RANGE</b> (typical)	127 dB, 1 kHz at Max SPL
<b>SIGNAL-TO-NOISE RATIO<sup>1</sup></b>	69 dB, 1 kHz at 1 Pa*
<b>PHANTOM POWER REQUIREMENTS</b>	11-52V DC, 3.5 mA typical
<b>SWITCHES</b>	Flat, roll-off; 10 dB pad
<b>WEIGHT</b>	98 g (3.5 oz)
<b>DIMENSIONS</b>	126.9 mm (5.00") long, 21.0 mm (0.83") diameter
<b>OUTPUT CONNECTOR</b>	Integral 3-pin XLRM-type
<b>ACCESSORIES FURNISHED</b>	AT8471 isolation clamp for <sup>5</sup> / <sub>8</sub> "-27 threaded stands; <sup>5</sup> / <sub>8</sub> "-27 to <sup>3</sup> / <sub>8</sub> "-16 threaded adapter; windscreen; soft protective pouch

<sup>1</sup>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

<sup>1</sup> Typical, A-weighted, using Audio Precision System One.

Specifications are subject to change without notice.



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