

# ATM450

ARTIST SERIES™

## CARDIOID CONDENSER INSTRUMENT MICROPHONE



- 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 AT8506 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 80Hz 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.

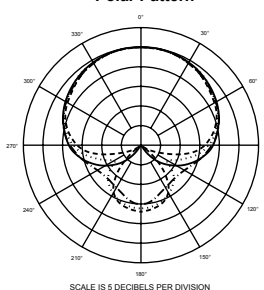
The ATM450 includes an AT8471 isolation clamp to provide secure mounting, versatile positioning and effective dampening of unwanted mechanical noise.

Avoid leaving the microphone in the open sun or in areas where temperatures exceed 40°C for extended periods. Extremely high humidity should also be avoided.

### SPECIFICATIONS

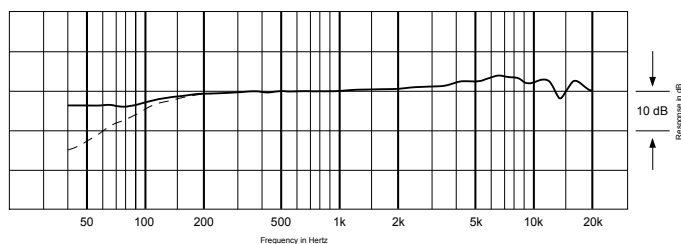
ELEMENT	Fixed-charge back plate permanently polarized condenser
POLAR PATTERN	Cardioid
FREQUENCY RESPONSE	40-20,000 Hz
LOW FREQUENCY ROLL-OFF	80 Hz, 18 dB/octave
OPEN CIRCUIT SENSITIVITY	-41 dB (8.9 mV) re 1V at 1 Pa
IMPEDANCE	200 ohms
MAXIMUM INPUT SOUND LEVEL	152 dB SPL, 1 kHz at 1% T.H.D.
DYNAMIC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

Polar Pattern



LEGEND:  
200 Hz ————  
1 kHz ————  
5 kHz - - - - -  
8 kHz - - - - -

Frequency Response



LEGEND: ———— 12" or more on axis  
- - - - - Roll-off

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FORM No. ATGC-L0029-06-E

# ATM450

ARTIST SERIES™

## 心形指向性电容式乐器话筒



- 独有的棒型边侧录音设计，提供最大的收音面积及最小的阻碍。
- 高稳定性的收音质量，合适于敲击乐器、原音结他、弦乐器及其他演奏乐器等的收音工作。
- 内置80Hz高通滤波器及10dB衰减。
- 专业应用性的耐用表现。
- 心形指向性收音，能有效减低旁边及后方的杂声干扰。
- 全金属结构，坚固、耐用、可长期使用。
- 配有防震话筒夹，提供稳固的安装，及调校夹持位置。

ATM450应用于专业收音工作，需要提供11V至52V幻象供电，可使用调音台上的幻象电源，也可以使用铁三角的AT8801单通道或AT8506四通道幻象电源供电作独立供电。

话筒的XLRM卡农输出端为低阻抗平衡输出，话筒音频信号最终以卡农公头的2号及3号针脚输出，而1号针脚则为地线(屏蔽)连接。输出相位将以正相位电平设于2号针脚上。

为避免出现相位相互抵消而失真的情况，所有话筒连接时，接线必需以1-1, 2-2, 3-3型式把针脚连接。

内置高通滤波电路，可轻易由平直的频率响应，开启为于80 Hz以下衰减的收音效果，应用高通滤波器可减低收音环境中低频噪声(如外间汽车引擎声，空调系统的风声等)，房间中的回声及机械性的震动声。

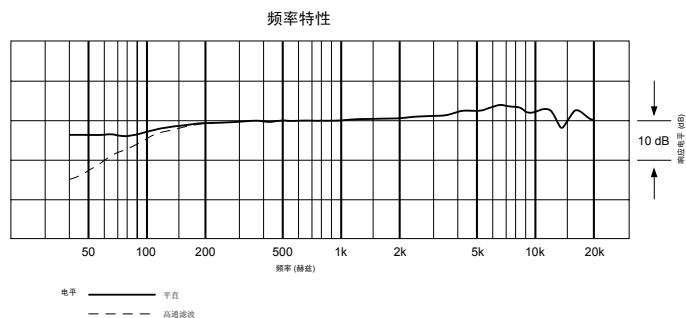
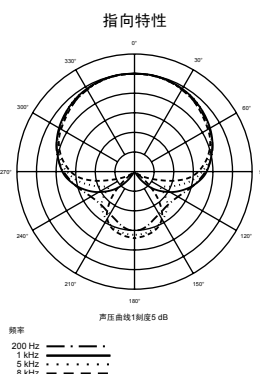
话筒并设有10dB衰减开关，在高声压环境收音时，减低话筒的灵敏度，避免破声的失真现象出现。

ATM450配套有AT8471防震话筒夹，提供稳固的安装，及可调校夹持位置，能减低机械性的震动及噪声。

把话筒暴露于高温中可能导致输出电平逐渐及永久性减弱，应避免将话筒留在日晒的地方或长时间置于温度超过43°C的地方，而极高湿度也应避免。

### 技术指标

收音头	固定充电背板，静电型电容式
指向特性	心形指向性
频率响应	40-20,000 Hz
高通滤波	80 Hz, 18 dB/octave
开通灵敏度	-41 dB (8.9 mV) 以 1V 于 1 Pa
输出阻抗	200 欧姆
最大承受声压	152 dB 声压, 1 kHz 于 1% T.H.D.
动态范围 (典型)	127 dB, 1 kHz 于最高声压
讯噪比	69 dB, 1 kHz 于 1 Pa
幻象供电	直流 11-52V, 耗电 3.5 mA 典型
开关	高通滤波; 10 dB 衰减
重量 (不带连线与配件)	98 克
外形尺寸	126.9 mm - 长度, 21.0 mm - 直径
输出连接器	内置 XLRM-3针卡农公头
附属品	AT8471 5/8"-27接头防震话筒夹, 5/8"-27至3/8"-16转接头, 保护袋。



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