

AT4021 CARDIOID CONDENSER MICROPHONE

(4°) S E R I E S



- Outstanding performance and rugged construction, ideal for critical studio & live applications
- High SPL handling and wide dynamic range
- Flat, extended frequency response
- Switchable 80 Hz hi-pass filter and 10 dB pad
- High front-to-back rejection ratio – cardioid polar pattern improves isolation of desired sound source
- Low self-noise perfectly suited for digital recording equipment
- Exceptional reproduction of low-frequency sounds
- Low-mass element for superb transient response

The AT4021 is intended for use in professional applications where remote power is available. It requires 48V 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 microphone's sensitivity to popping in close vocal use. It also reduces the pickup of low-frequency ambient noise (such as traffic, air-handling systems, etc.), room reverberation and mechanically-coupled vibrations.

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.

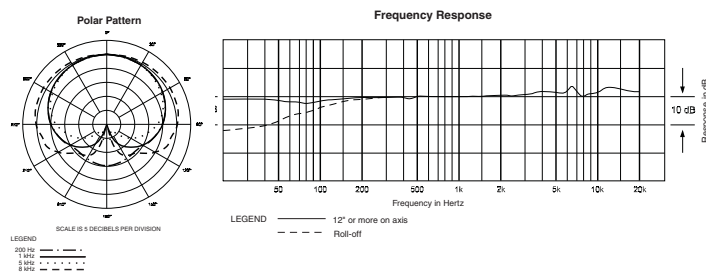
AT4021 SPECIFICATIONS†

ELEMENT	Fixed-charge back plate permanently polarized condenser
POLAR PATTERN	Cardioid
FREQUENCY RESPONSE	20-20,000 Hz
LOW FREQUENCY ROLL OFF	80 Hz, 12 dB/octave
OPEN CIRCUIT SENSITIVITY	-34 dB (19.9 mV) re 1V at 1 Pa*
IMPEDANCE	250 ohms
MAXIMUM INPUT SOUND LEVEL	146 dB SPL, 1 kHz at 1% T.H.D.; 156 dB SPL, with 10 dB pad (nominal)
NOISE¹	14 dB SPL
DYNAMIC RANGE (typical)	132 dB, 1 kHz at Max SPL
SIGNAL-TO-NOISE RATIO¹	80 dB, 1 kHz at 1 Pa*
PHANTOM POWER REQUIREMENTS	48V DC, 3.0 mA typical
SWITCHES	Flat, roll-off; 10 dB pad
WEIGHT	119 g (4.2 oz)
DIMENSIONS	144.0 mm (5.67") long, 21.0 mm (0.83") maximum body diameter
OUTPUT CONNECTOR	Integral 3-pin XLRM-type
ACCESSORIES FURNISHED	AT8405a stand clamp for 5/8"-27 threaded stands; windscreen; protective carrying case

†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/cm² = 10 microbars = 94 dB SPL

¹ Typical, A-weighted, using Audio Precision System One. Specifications are subject to change without notice.



 **audio-technica**

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