

AT2031



Cardioid Condenser End-Address Microphone
The ideal microphone for stringed instruments

20 series microphones



Features

- Outstanding performance and rugged construction
- High SPL handling and wide dynamic range
- Smooth, extended frequency response with a slight rise in the high-frequency region
- Switchable 150 Hz 6dB/oct hi-pass filter
- Cardioid polar pattern improves isolation of desired sound source
- Low self noise perfectly suited for digital recording equipment
- Ideal for stringed instruments such as Violin, Cello, Acoustic Guitar, Harp and Piano.

Description

The AT2031 is the ideal microphone for stringed instruments in critical studio and live applications. Its permanently polarized element offers extended frequency response with a slight rise in the high frequency range for a more detailed sound. Its low self-noise and high SPL handling capability offer a wide dynamic range, perfectly suited for the most demanding applications.

Operation and Maintenance

The AT2031 requires 48V phantom power for operation.

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.

An integral 150 Hz high-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. To engage the high-pass filter, slide the switch toward the "bent" line.

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.

Element	Fixed-charge back plate, permanently polarized condenser
Polar Pattern	Cardioid
Frequency Response	20-20,000 Hz
Low Frequency Roll-Off	150 Hz, 6 dB/octave
Open Circuit Sensitivity	-34 dB (19.9 mV) re 1V at 1 Pa
Impedance	85 ohms
Maximum Input Sound Level	141 dB SPL, 1 kHz at 1% T.H.D.;
Noise	17 dB SPL
Dynamic Range (Typical)	124 dB, 1 kHz at Max SPL
Signal-To-Noise Ratio	77 dB, 1 kHz at 1 Pa
Phantom Power Requirements	48V DC, 2.0 mA typical
Switches	Flat, roll-off
Weight	134 g
Dimensions	143.0 mm long, 21.0 mm maximum body Ø
Output Connector	Integral 3-pin XLRM-type
Accessories Furnished	AT8405a stand clamp; windscreen; 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.

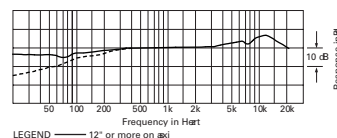
1 Pascal = 10 dynes/cm² = 10 microbars = 94 dB SPL

*Typical, A-weighted, using Audio Precision System One.

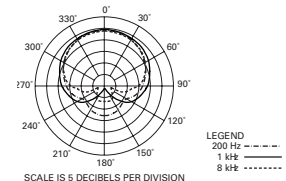
Specifications are subject to change without notice.



frequency response:



polar pattern



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 Audio-Technica Limited, Old Lane, Leeds LS11 8AG England
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