

# AT2031

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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.

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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; windscreens; 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.

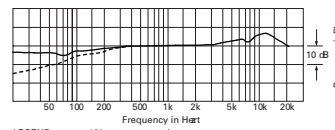
1 Pascal = 10 dynes/cm<sup>2</sup> = 10 microbars = 94 dB SPL

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

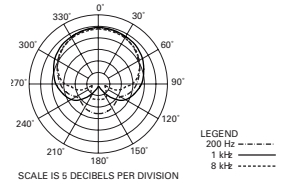
Specifications are subject to change without notice.



## frequency response:



## polar pattern



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