

# BP4002

broadcast & production microphones

## Omnidirectional Dynamic Microphone



### Features

- Professional omnidirectional dynamic microphone with extended-length handle is ideal for on-location interviews
- The back-cavity assembly “floats” inside the handle shell, providing exceptional isolation from handling noise
- Frequency response is tailored for natural, clear and articulate reproduction of spoken words
- Omnidirectional polar pattern provides a natural reproduction of surrounding ambience
- Rugged housing with hardened-steel grille stands up to field use
- Integral windscreen protects against wind and breath noise
- Equipped with foam windscreen, carrying case, protective pouch and professional stand clamp

### Description

The BP4002 is a dynamic microphone with an omnidirectional polar pattern. It is designed primarily for on-location interviews.

The output of the microphone is a 3-pin XLRM-type connector.

The microphone is enclosed in a rugged housing. The included AT8470 Quiet-Flex™ stand clamp permits mounting on any microphone stand with  $\frac{5}{8}$ "-27 threads. A foam windscreen, carrying case and soft protective pouch are also included.

### Operation and Maintenance

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. For a high-impedance (Hi-Z) mic input, connect a Lo-Z balanced cable to a Hi-Z matching transformer at the equipment input.

Take care to keep foreign particles from entering the windscreen. An accumulation of iron or steel filings on the diaphragm, and/or foreign material in the windscreen’s mesh surface, can degrade performance.

### Architect’s and Engineer’s Specifications

The microphone shall be a moving coil dynamic designed for handheld or stand use. It shall have an omnidirectional polar pattern and a frequency response of 80 Hz to 20,000 Hz. Nominal open-circuit output voltage shall be 1.5 mV at 1V, 1 Pascal. Output shall be low impedance balanced (300 ohms).

The output of the microphone shall be a 3-pin XLRM-type connector.

The microphone shall be 240.8 mm (9.48") long and have a head diameter of 40.0 mm (1.57"). Weight shall be 276 grams (9.7 oz.). The microphone shall include a foam windscreen, stand clamp, carrying case and soft protective pouch.

The Audio-Technica BP4002 is specified.

### Specifications

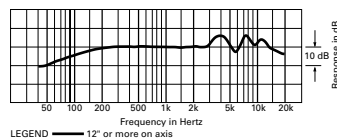
Element	Dynamic
Polar pattern	Omnidirectional
Frequency response	80-20,000 Hz
Open circuit sensitivity	-56 dB (1.5 mV) re 1V at 1 Pa
Impedance	300 ohms
Weight	276 g (9.7 oz)
Dimensions	240.8 mm (9.48") long, 40.0 mm (1.57") head diameter
Output connector	Integral 3-pin XLRM-type
Audio-Technica case style	S8
Accessories furnished	AT8470 Quiet-Flex™ stand clamp for $\frac{5}{8}$ "-27 threaded stands; $\frac{5}{8}$ "-27 to $\frac{3}{8}$ "-16 threaded adapter; foam windscreen; carrying case; 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.

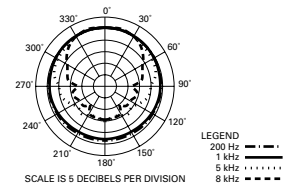
1 Pascal = 10 dynes/cm<sup>2</sup> = 10 microbars = 94 dB SPL  
Specifications are subject to change without notice.



### frequency response: 80–20,000 Hz



### polar pattern



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Audio-Technica U.S., Inc., 1221 Commerce Drive, Stow, Ohio 44224  
Audio-Technica Limited, Old Lane, Leeds LS11 8AG England  
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