

# BP4002

## 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 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.

### Operation and Maintenance

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 long and have a head diameter of 40.0 mm. Weight shall be 276 grams. The microphone shall include a foam windscreen, stand clamp, carrying case and soft protective pouch.

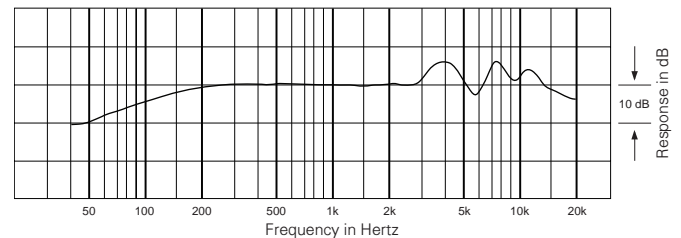
The Audio-Technica BP4002 is specified.



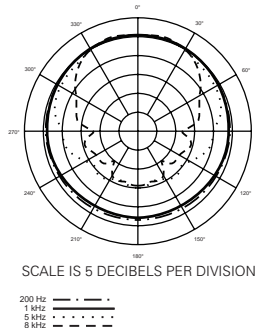
### Specifications

<b>Element</b>	Dynamic
<b>Polar pattern</b>	Omnidirectional
<b>Frequency response</b>	80-20,000 Hz
<b>Open circuit sensitivity</b>	-56 dB (1.5 mV) re 1V at 1 Pa
<b>Impedance</b>	300 ohms
<b>Weight</b>	276 g
<b>Dimensions</b>	240.8 mm long, 40.0 mm head diameter
<b>Output connector</b>	Integral 3-pin XLRM-type
<b>Accessories furnished</b>	AT8470 Quiet-Flex™ stand clamp for 5/8"-27 threaded stand; 5/8"-27 to 3/8"-16 threaded adapter; foam windscreen; carrying case; soft protective pouch

frequency response: 80–20,000 Hz



polar pattern



# BP4002

## 全方向式指向性动圈话筒



### 特点

- 专业性的全方向指向性动圈话筒，配以伸展的手持结构，更适合于现场采访的收音应用
- 手持柄壳内设有「浮动式」空腔结构，能非常有效地隔离手持噪声
- 专为要求自然、清晰和了亮的人声语音收音而开发，提供卓越而相称的频率响应
- 全方向特性指向性收音，提供一个全环境性，广阔而自然的收音效果
- 坚固的外壳结构，配以强化的钢质收罩头网罩式，适合于户外环境使用
- 整合了防风保护，能阻隔风声和呼吸声等噪声
- 附有防风海绵罩、便携袋、保护盒和专用话筒夹

### 介绍

BP4001 全方向性指向动圈话筒，主要设计于作为现场采访使用。

话筒的输出端为内置3针XLRM卡农公头。

话筒封装于坚固的机壳内，附设有 AT8470 Quiet-Flex™ 话筒夹，可把话筒安装于任何 $\frac{5}{8}$ "-27接环的话筒架上，并提供一个防风海绵罩，一个便携袋及保护盒。

### 操作及保养

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。如连接高阻抗的话筒输入，请配套阻抗匹配变压器 AT8201。

小心不要把金属碎或铁屑掉进防风罩内，铁屑会吸进收音头磁铁中，或贴在防风罩内，将会影响及减低收音效果。

### 结构和工程指标

话筒为动圈式收音头结构，设计于手持或配置话筒架使用，并为全方向指向性以及 80Hz - 20,000Hz 频率响应的收音性能，开通灵敏度电压为 15mV(于1V以1Pa)，而输出为低阻抗平衡式(300欧姆)。

话筒的输出端为3针XLRM卡农公头。

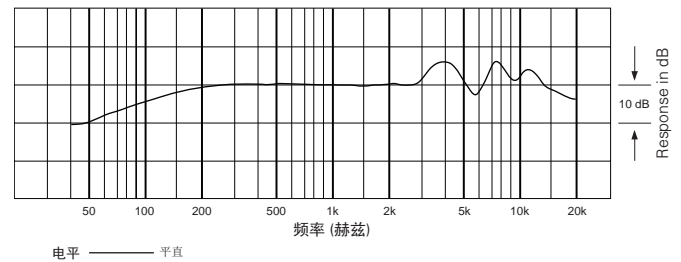
话筒长度为240.8 mm，头罩直径为40.0 mm，重量为276克。话筒附设有防风海绵罩、话筒夹、便携袋及保护盒。

**BROADCAST  
& PRODUCTION**  
MICROPHONES

### 技术指标

收音头	动圈式
指向特性	全方向指向性
频率响应	80-20,000 Hz
开通灵敏度	-56 dB (1.5 mV) 以 1V 于 1 Pa
阻抗	300 欧姆
重量	276 克
外形尺寸	长 240.8 mm, 头环直径 40.0 mm
输出端子	整合式 3 针卡农公头
标准配置	AT8470 Quiet-Flex™ 话筒夹带 $\frac{5}{8}$ "-27 接环; $\frac{5}{8}$ "-27 至 $\frac{3}{8}$ "-16 转接环; 防风海绵; 便携袋; 保护盒

频率响应: 80-20,000 Hz



指向特性

