# GRAS 67AD

## ⌀400 mm CCP Ground Array Microphone Kit



Freq range: 3.15 Hz to 10 kHz
Dyn range: 18 dB(A) to 138 dB
Sensitivity: 50 mV/Pa

The GRAS 67AD ½" CCP Ground Array Microphone Set consists of a ½" precision pressure microphone with built-in CCP preamplifier, a ⌀400 mm mounting plate, and an adapter for a BNC cable.

GRAS Sound & Vibration
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## Typical applications and use

- Ground array measurements
- General noise measurements
- Ideal for the aerospace industry

## Design

The microphone set is designed to sit asymmetrically in the mounting to attain a more uniform frequency response for measurements.

The microphone is a IEC 61094 prepolarized pressure microphone with a dynamic range from 18 dB to 138 dB and a frequency range from 3.15 Hz to 20 kHz. Its height of only 8 mm (to the diaphragm) is the ideal match for the design of the 67AD. The built-in preamplifier is a low noise constant current power (CCP) type, with a built-in TEDS circuit for automatic transducer identification.

# Specifications

| | | |
|---|---|---|
| Polarization/Connection | | 0 V / CCP |
| Frequency range (±1 dB) | Hz | 12.5 to 7 k |
| Frequency range (±2 dB) | Hz | 3.15 to 10 k |
| Dynamic range lower limit (microphone thermal noise) | dB(A) | 18 |
| Dynamic range upper limit | dB | 138 |
| Set sensitivity @ 250 Hz (±2 dB) | mV/Pa | 50 |
| Power supply (Constant Current Power) | mA | 2 to 10 |
| Microphone venting | | Rear |
| IEC 61094-4 Compliance | | WS3P |
| Output impedance | Ω | <50 |
| Temperature range, operation | °C / °F | -30 to 70 / -22 to 158 |
| Temperature range, storage | °C / °F | -40 to 85 / -40 to 185 |
| Temperature coefficient @250 Hz | dB/°C / dB/°F | -0.01 dB/ °C |
| Static pressure coefficient @250 Hz | dB/kPa | -0.008 |
| Humidity range non condensing | % RH | 1 to 100 |
| Humidity coefficient @250 Hz | dB/% RH | < 0.1 |
| Influence of axial vibration @1 m/s² | dB re 20 µPa | 66 |
| TEDS UTID (IEEE 1451.4) | | 27 v. 1.0 |
| Connector type | | BNC |
| CE/RoHS compliant/WEEE registered | | Yes/Yes/Yes |

GRAS Sound & Vibration reserves the right to change specifications and accessories without notice.

## Included items

| | |
|---|---|
| GRAS 47AD | 1/2" CCP Flush-mounted Microphone Set |
| GRAS GR1425 | Ground plate Ø400 mm |
| GRAS AM0375 | Windscreen for 67AX |
| GRAS AA0069 | 3 m Microdot Angled - BNC cable |

## Optional accessories

| | |
|---|---|
| GRAS 42AP | Intelligent Pistonphone, Class 0 |
| GRAS RA0216 | Pistonphone field-verification adapter |
| GRAS RA0221 | Pistonphone calibration adapter |

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# GRAS Worldwide

## Subsidiaries and distributors in more than 40 countries


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**About GRAS Sound & Vibration**

GRAS is a worldwide leader in the sound and vibration industry. We develop and manufacture state-of-the-art measurement microphones and related equipment for industries where acoustic measuring accuracy and repeatability are of the utmost importance. This includes applications and solutions for customers within the fields of aerospace, automotive, audiology, consumer electronics and other highly demanding industries. GRAS microphones are designed to live up to the high quality, durability and accuracy that our customers have come to expect, trust and require.
GRAS Sound & Vibration is represented through subsidiaries and distributors in more than 40 countries and is part of Axiometrix Solutions, a leading test solutions provider comprised of globally recognized measurement brands. Read more at www.grasacoustics.com

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