

# GRAS 67AD

ø400 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 ø400 mm mounting plate, and an adapter for a BNC cable.

## 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.

Frequency range ( $\pm 1$ dB)	Hz	12.5 to 7 k
Frequency range ( $\pm 2$ 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 ( $\pm 2$ dB)	mV/Pa	50
Power supply (Constant Current Power)	mA	2 to 10
Microphone venting		Rear
Output impedance	$\Omega$	<50
Temperature range, operation	$^{\circ}\text{C}$ / $^{\circ}\text{F}$	-30 to 70 / -22 to 158
Temperature range, storage	$^{\circ}\text{C}$ / $^{\circ}\text{F}$	-40 to 85 / -40 to 185
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/s <sup>2</sup>	dB re 20 $\mu\text{Pa}$	66
TEDS UTID (IEEE 1451.4)		27 v. 1.0
Connector type		Microdot 10/32
CE/RoHS compliant/WEEE registered		Yes/Yes/Yes

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

## Included items

GRAS 47AX-S1	1/2" CCP Flush-mounted Microphone Set
GRAS GR1425	Ground plate Ø400 mm
<a href="#">GRAS AM0375</a>	Windscreen for 67AX
<a href="#">GRAS AA0069</a>	3 m Microdot Angled – BNC cable

## Optional accessories

<a href="#">GRAS 42AP</a>	Intelligent Pistonphone, Class 0
GRAS RA0216	Pistonphone field-verification adapter
GRAS RA0221	Pistonphone calibration adapter

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# | We Make Microphones

## Tradition

Since the establishment in 1994, GRAS has been 100% dedicated to developing and manufacturing high-quality measurement microphones and related acoustic equipment.

## Innovation

We work with everybody with an interest in sound or noise within the fields of aerospace, automotive, audiology, consumer electronics, noise monitoring, building acoustics and telecommunications.

## Quality

At GRAS we know that in order for you to trust your measurement results; signal quality, stability and robustness are essentials. We design and build them to perform under real life conditions – and beyond.

