

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.

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		15
Output impedance	Ω	<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
Temperature coefficient @250 Hz	dB/ $^{\circ}\text{C}$ / dB/ $^{\circ}\text{F}$	-0.01 dB/ $^{\circ}\text{C}$
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/s ²	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

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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 to industries where acoustic measuring accuracy and repeatability is of utmost importance in R&D, QA and production. This includes applications and solutions for customers within the fields of aerospace, automotive, audiology, and consumer electronics. GRAS microphones are designed to live up to the high quality, durability and accuracy that our customers have come to expect and trust.

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