

# GRAS 46AC

1/2" LEMO



3.15 Hz - 40 kHz  
20 dB(A) - 164 dB  
12.5 mV/Pa

GRAS 46AC    1/2 "    LEMO  
LEMO    TEDS    CCP    [GRAS 46AM](#)

7



GRAS

GRAS

GRAS

GRAS

GRAS



46AC

0

GRAS

GRAS

ISO 17025

DANAK

GRAS

[gras/calib.](#)



GRAS 46AC

1/2



GRAS

IEC 61094 WSF2

[GRAS 40AC1/2"](#)

5



GRAS 26TK

TEDS

[GRAS 26AK 1/2"](#)

GRAS

1/2

7 LEMO

--



GRAS 46AC

200V

7 LEMO

LEMO

46AC IEEE 1451.4 TEDS v.1.0



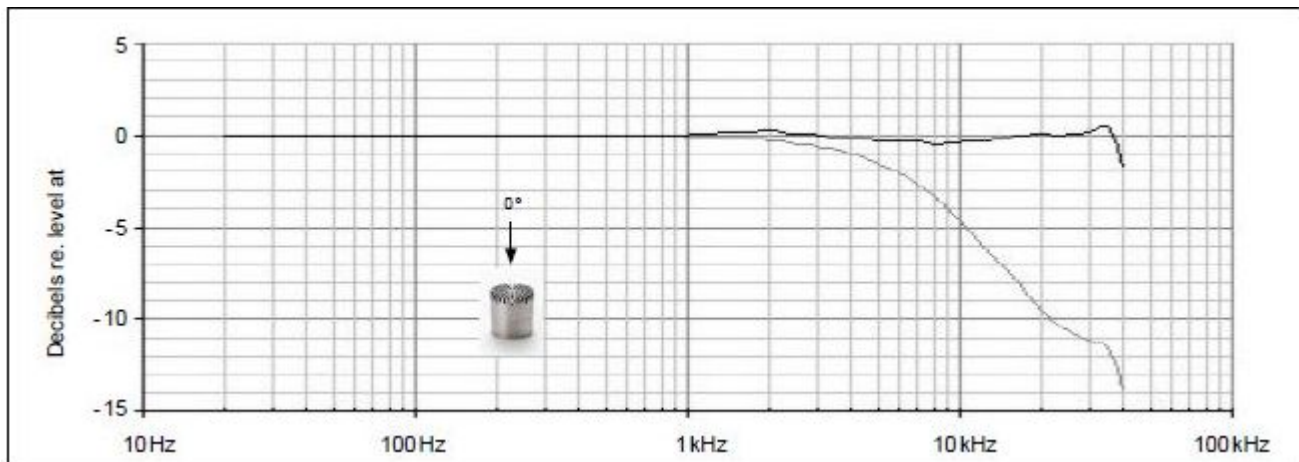
TEDS

[42AG](#)

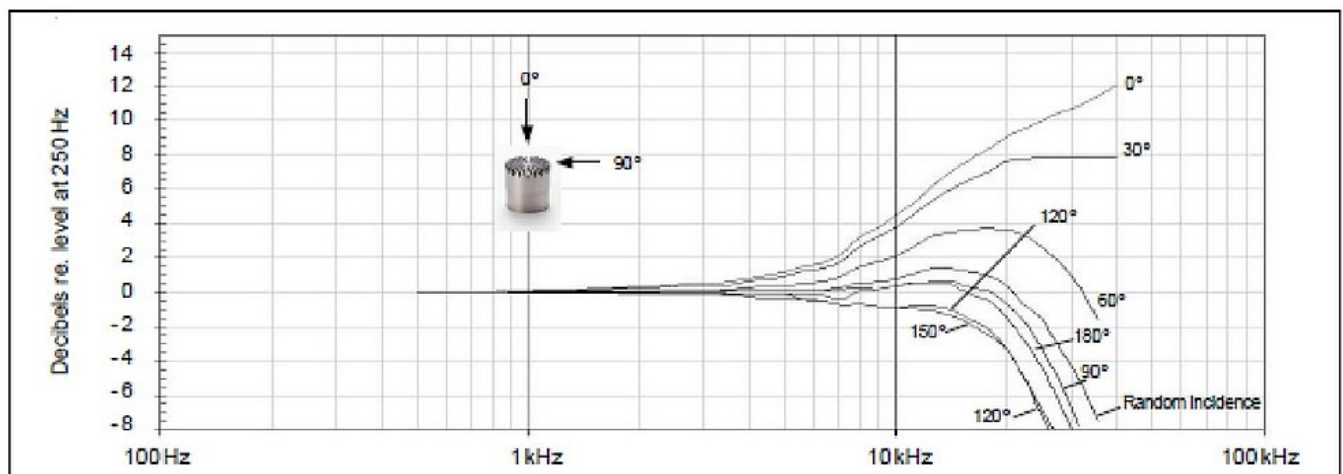
[GRAS](#)

[GRAS 42AP](#)

Polarization/Connection		200 V / Traditional
Frequency range ( $\pm 1$ dB)	Hz	5 to 16 k
Frequency range ( $\pm 2$ dB)	Hz	3.15 to 40 k
Dynamic range lower limit with GRAS preamplifier	dB(A)	20
Dynamic range upper limit with GRAS preamplifier @ +28 V / $\pm 14$ V power supply	dB	153
Dynamic range upper limit with GRAS preamplifier @ +120 V / $\pm 60$ V power supply	dB	164
Set sensitivity @ 250 Hz ( $\pm 2$ dB)	mV/Pa	12.5
Set sensitivity @ 250 Hz ( $\pm 2$ dB)	dB re 1V/Pa	-38
Output impedance	$\Omega$	75
Power supply min. to max. (single/balanced)	V	28 to 120 / $\pm 14$ to $\pm 60$
DC-offset, min., single supply	V	$0.5 \times V_s - 1$
DC-offset, max., single supply	V	$0.5 \times V_s + 4$
DC-offset, balanced supply	V	-1 to 4
Microphone venting		Rear
IEC 61094-4 Designation		WS2F
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 / -0.006
Static pressure coefficient @250 Hz	dB/kPa	-0.007
Humidity range non condensing	% RH	0 to 90
Influence of axial vibration @1 m/s <sup>2</sup>	dB re 20 $\mu\text{Pa}$	62
TEDS (IEEE 1451.4)		27 v. 1.0
Connector type		7-pin LEMO (FGG.1B.307)
CE/RoHS compliant/WEEE registered		Yes / Yes/Yes
Weight	g / oz	33 / 1.164

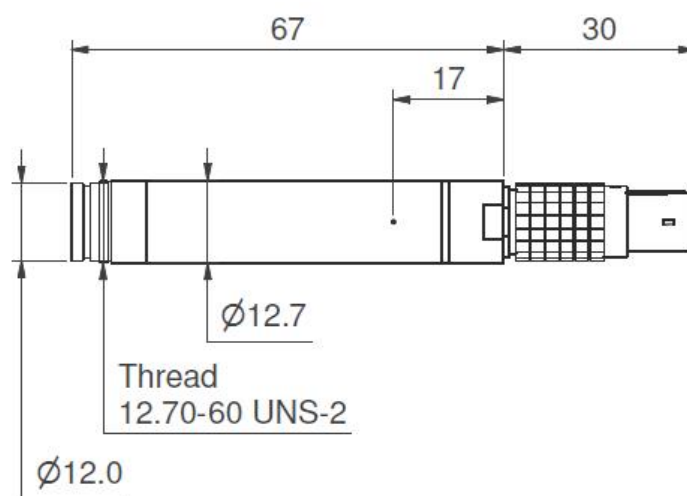
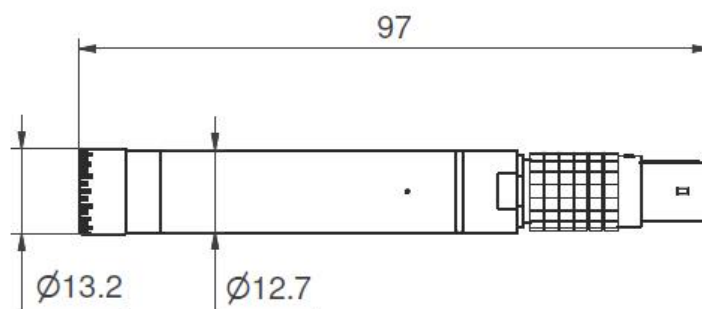


0°



GRAS Sound & Vibration

Dimensions in mm





---

<a href="#">GRAS AA0008</a>	3 m LEMO 7-pin – LEMO 7-pin Cable
<a href="#">GRAS AL0008</a>	1/2" Microphone Holder, POM
<a href="#">GRAS AL0012</a>	1/2" Microphone Holder, Stainless Steel
<a href="#">GRAS AL0005</a>	Swivel head
<a href="#">GRAS AL0006</a>	Tripod
<a href="#">GRAS RA0020</a>	1/2" Nosecone
<a href="#">GRAS AM0069</a>	Windscreen for 1/2" Microphones
<a href="#">GRAS RA0131</a>	Rain-protection cap for 1/2" microphones
<a href="#">GRAS 12AA</a>	2-Channel Power Module with gain, filters and SysCheck generator
<a href="#">GRAS 12AQ</a>	2-Channel Universal Power Module with signal conditioning and PC interface
<a href="#">GRAS 42AG</a>	Multifunction Sound Calibrator, Class 1
<a href="#">GRAS 42AP</a>	Intelligent Pistonphone, Class 0
GRAS CA0029	Traceable Calibration of Microphone Set
GRAS CA2301	Accredited Calibration of Microphone Set

GRAS Sound & Vibration

# GRAS Worldwide

Subsidiaries and distributors in more  
than 40 countries

**HEAD OFFICE, DENMARK**  
**GRAS SOUND & VIBRATION**  
Skovlytoften 33  
2840 Holte  
Denmark  
Tel: +45 4566 4046  
[www.GRASacoustics.com](http://www.GRASacoustics.com)  
[gras@grasacoustics.com](mailto:gras@grasacoustics.com)

**USA**  
**GRAS SOUND & VIBRATION**  
9290 SW Nimbus Avenue  
Beaverton, OR 97008  
Tel: 503-627-0832  
Toll Free: 800-231-7350  
[www.GRASacoustics.com](http://www.GRASacoustics.com)  
[sales-usa@grasacoustics.com](mailto:sales-usa@grasacoustics.com)

**UK**  
**GRAS SOUND & VIBRATION**  
Unit 115, Gibson House,  
Ermine Business Park, Huntingdon,  
Cambridgeshire, PE29 6XU  
Tel: +44 (0) 7762 584 202  
[www.GRASacoustics.com](http://www.GRASacoustics.com)  
[sales-uk@grasacoustics.com](mailto:sales-uk@grasacoustics.com)

**CHINA**  
**GRAS SOUND & VIBRATION**  
Room 315, RuiBo Center(T1)  
Lane683, Shenhong Rd,  
Minhang District,  
Shanghai, China, 201107  
Tel: +86 21 64203370  
[www.GRASacoustics.cn](http://www.GRASacoustics.cn)  
[cnsales@grasacoustics.com](mailto:cnsales@grasacoustics.com)



## 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](http://www.grasacoustics.com)

[grasacoustics.com](http://grasacoustics.com)

**GRAS**  
An Axiometrix Solutions Brand