

# GRAS 67SB

Blast Probe Microphone  
according to ANSI S12.42



Freq range: 10 Hz to 20 kHz  
Dyn range: 52 dB(A) to 174 dB

The GRAS 67SB Blast Probe is designed as a reference microphone for impulse measurements according to the ANSI/ASA S12.42 standard.

The 67SB Blast Probe is designed as a reference microphone for impulse measurements according to the ANSI S12.42 standard. The 67SB can measure impulse signals with an A-duration of  $0.5 \text{ ms} \leq \text{impulse} \leq 2.0 \text{ ms}$ , and it has a working range of 10 Hz – 20 kHz. The 1/8" reference microphone inside the 67SB is ideally suited for capturing impulsive signals with a very fine time resolution. This microphone has an upper limit of 174 dB in the dynamic range.

The 67SB is equipped with a 1/8" reference microphone which is designed to capture impulsive noise with a very short duration. The 67SB is provided with a 1/4" threaded hole for mounting the 67SB directly on a tripod e.g. AL0006.

The design and concept of the 67SB, and the microphone and preamplifier, comply with the following standards:

- ANSI S12.42 – “Methods for the Measurement of Insertion Loss of Hearing Protection Devices in Continuous or Impulsive Noise Using Microphone-in-Real Ear or Acoustic Test Fixture Procedures”
- IEC Standard 61094-1 – “Specifications for Laboratory Standard Microphones”

The 67SB has a length of 410 mm.

Frequency range ( $\pm 2$ dB)	Hz	10 to 20 k
Dynamic range lower limit with GRAS preamplifier	dB(A)	52
Dynamic range upper limit	dB	174
Microphone venting		Rear
Output impedance	$\Omega$	75
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	-0.01 at 25 $^{\circ}\text{C}$
Humidity range non condensing	% RH	0 to 95
Humidity coefficient @250 Hz	dB/% RH	<0.1/0-100
Influence of axial vibration @1 m/s <sup>2</sup>	dB re 20 $\mu\text{Pa}$	59
Connector type		3 m 7-pin LEMO
CE/RoHS compliant/WEEE registered		Yes/Yes/Yes
Weight	g / oz	650 / 22.9

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

## Included

GRAS RA0246	Calibration clip for use with Pistonphone
GRAS GR1243	Pistonphone adapter
GRAS YY0012	1.5 mm Hex key
GRAS LI0056	Manual

## Optional

<a href="#">GRAS 12AK</a>	1-ch LEMO Power Module with gain, filters and SysCheck generator
<a href="#">GRAS AA0008</a>	3 m LEMO extension cable
<a href="#">GRAS AA0009</a>	10 m LEMO extension cable
<a href="#">GRAS 42AP</a>	Intelligent Pistonphone
<a href="#">GRAS AL0006</a>	Tripod

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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.

