

# GRAS 50GI-RP

CCP Rugged Intensity Probe



Freq range: IEC 61043 Class 1  
Dyn range: 27 dB(A) to 146 dB  
Sensitivity: 12.5 mV/Pa

Type 50GI-RP is a sound intensity probe for direct connection to signal analyzers or data acquisition devices with IEPE inputs. The probe includes a pair of phase-matched prepolarized precision microphones which meet the requirements in IEC standard 61043 for a class-1 intensity probe..

## Typical applications and use

- Sound intensity measurements
- Sound source location
- Sound power measurements
- IEC 61043 standard measurements
- Sound source ranking
- Sound intensity mapping

## Design

The probe set includes solid interchangeable spacers for microphone separations from 12 mm to 50 mm so that the probe can cover the frequency range from 100 Hz to 10 kHz.

All components are made specifically for sound intensity applications. Each small 1/4" diameter by 40 mm long microphone preamplifier is housed in a robust stainless steel casing. The probe head is symmetrical which enables reliable calibrations as described in the proposed standard (ISO/DIS 9614-2) for sound power measurements using sound intensity measurements.

The GRAS 50GI-RP CCP Intensity Probe is a two-microphone sound intensity probe especially designed for use in conditions calling for a rugged design. It is equipped with CCP transducers and a remote control handle for direct connection to an intensity analyzer. The remote-controlled intensity probe comprises a 40GK-S1 sound Intensity Microphone Pair, two 26CC CCP Microphone Preamplifiers, three solid spacers of various lengths, windscreen and a probe handle.

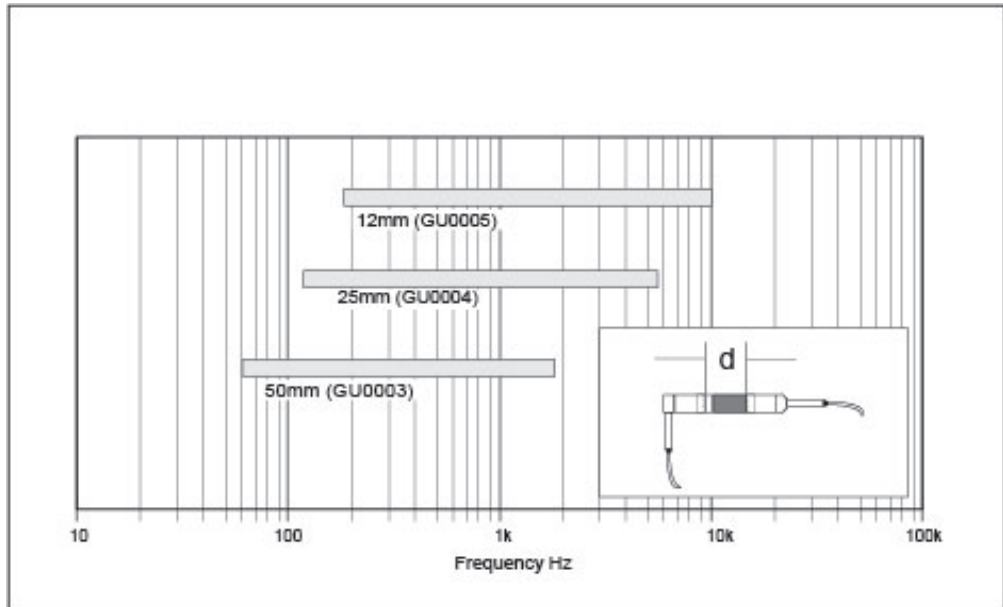
The 50GI-RP is delivered in a carrying case as a ready-to-use kit, complete with all the above accessories.

The microphones are 1/2" free-field prepolarized microphones with a uniquely-designed pressure equalisation system, which ensures extremely well defined phase characteristics.

The microphones and preamplifiers are mounted on a swivel head on the telescopic arm of the handle. To cover the frequency range from 100 Hz to 10 kHz, the 50GI-P probe is delivered with three solid spacers for spacing the microphones at 12 mm, 25 mm, and 50 mm. These spacers can be easily interchanged without dismantling the probe.



Polarization/Connection	0 V / CCP
Connector type	12-pin LEMO



Frequency ranges for different microphone spacers

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

## Included

GRAS RA0213	Rugged Probe Head
GRAS 40GK-S1	1/2" Intensity Microphone Set
<a href="#">GRAS RA0001</a>	Right-angled (90°) Adapter for 1/2" microphone and 1/4" preamplifier
GRAS GR0040	Holder for spacer
GRAS RA0264	Spacer, 50 mm
GRAS RA0265	Spacer, 25 mm
GRAS RA0266	Spacer, 12 mm
<a href="#">GRAS 26CC Set</a>	1/4" CCP Preamplifier set
GRAS AA0021	5 m Extension Cable, 5 m, 12 pin LEMO male - male
GRAS AC0024	Adapter cable, 12-pin LEMO to D-sub + 2xBNC
GRAS KE0122	Serial (D-sub) to USB adapter
GRAS AI0048	Probe handle
<a href="#">GRAS AM0376</a>	Windscreen

## Optional

GRAS AA0010-S1	3 m LEMO 12-pin - Lemo 12-pin, Cable for Intensity Probe
<a href="#">GRAS AA0010</a>	10 m LEMO 12-pin - Lemo 12-pin, Cable for Intensity Probe
<a href="#">GRAS 51AB</a>	Intensity Calibrator
<a href="#">GRAS 42AP</a>	Pistonphone with built-in barometer and thermometer (recommended)
<a href="#">GRAS 42AA</a>	Pistonphone
<a href="#">GRAS RA0024</a>	Two-port Calibration Coupler (for GRAS 42AP or 42AA Pistonphones)

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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 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)

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