

# GRAS 40PP-10-S1

CCP 自由场 QC 传声器，高压



频率范围 10 Hz - 20 kHz  
动态范围 33 dB(A) - 142 dB  
灵敏度 9 mV/Pa ( $\pm 3$  dB)

GRAS 40PP-10-S1 QC 高压传声器是一款坚固耐用、成本效益高的传声器，专为扬声器和声学换能器的生产线测试而设计。它具有宽广的频率范围，最高可达 20 kHz 以及从 33 dB(A) 到 142 dB 的宽动态范围。

## Typical applications and use

- Production-line testing of drivers, receivers, and microspeakers
- Sound-scape recording in array configurations
- Multichannel measurements (analysis)

## Design

The cost-effectiveness of the 40PP-10-S1 is a key consideration when setting up multiple production lines. Close manufacturing tolerances provide the 40PP-S1 with a high degree of interchangeability – a major advantage when used in production-line test setups.

The robust standard BNC connector of the 40PP-10-S1 ensures an easy-to-handle setup and supports the use of standard RG58 cables all the way from the microphone to the input module.

The integrated CCP (Constant Current Power) preamplifier requires a constant-current power supply, such as the [GRAS 12AL](#) 1-Channel CCP Power Module with A-Weighting filter, or any other CCP compatible power supply or input module. The built-in TEDS (Transducer Electronic Data Sheet, according to IEEE 1451.4) chip provides information about the microphone that can be used by systems designed for use with TEDS.

## Microphone Calibration

Calibration is easy with a GRAS pistonphone, such as the [GRAS 42AA](#), together with a ¼" microphone adapter.

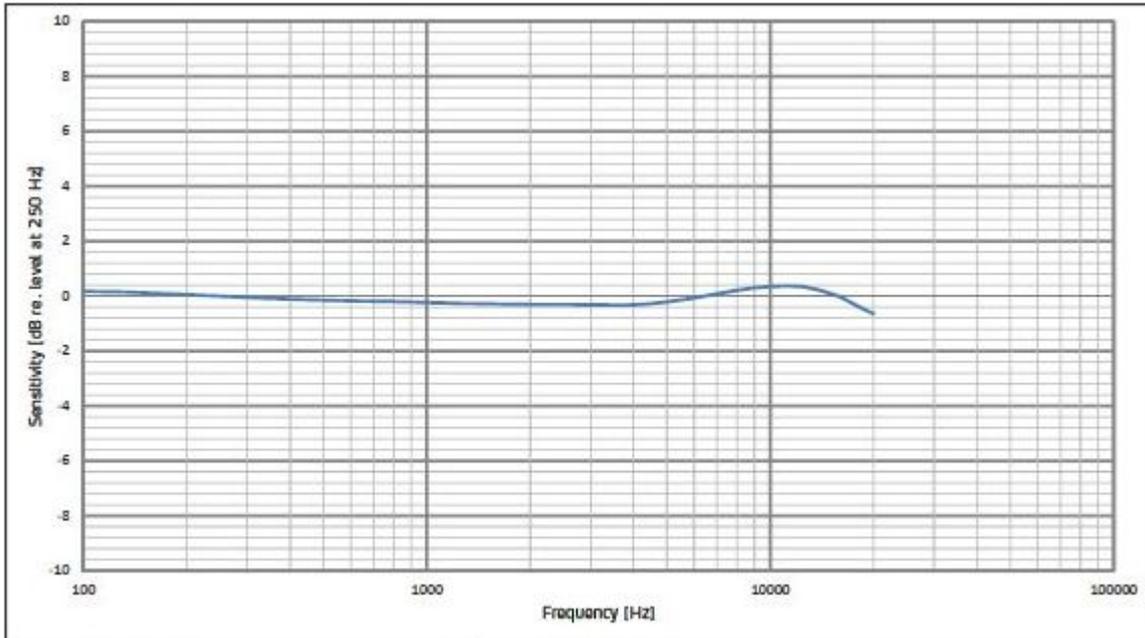
Before leaving the factory, GRAS products are tested and calibrated by GRAS, and an individual test certificate is included with the product.

## Warranty

GRAS offers 3 years warranty against defective

materials and workmanship.

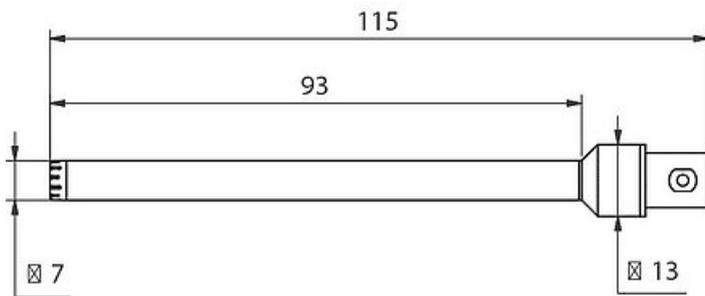
Polarization/Connection		0 V / CCP
Frequency range ( $\pm 1.5$ dB)	Hz	50 to 5 k
Frequency range ( $\pm 2$ dB)	Hz	10 to 20 k
Dynamic range lower limit (microphone thermal noise)	dB(A)	<33
Dynamic range upper limit	dB	142
Set sensitivity @ 250 Hz ( $\pm 3$ dB)	dB re 1V/Pa	9
Power supply (Constant Current Power)	mA	2 to 20
Microphone venting		Front
Output impedance	$\Omega$	<50
Temperature range, operation	$^{\circ}\text{C} / ^{\circ}\text{F}$	-10 to 50 / 14 to 122
Temperature range, storage	$^{\circ}\text{C} / ^{\circ}\text{F}$	-20 to 60 / -4 to 140
Influence of axial vibration @1 m/s <sup>2</sup>	dB re 20 $\mu\text{Pa}$	55
TEDS (IEEE 1451.4)		27 v. 1.0
Connector type		BNC
CE/RoHS compliant/WEEE registered		Yes/Yes/Yes
Weight	g / oz	5.5 / 0.2



Typical frequency response

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Dimensions in mm



GS0528  
40PP

## 选配

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<a href="#">GRAS 12AL</a>	1-Channel CCP Power Module with A-weighting filter
<a href="#">GRAS AL0028</a>	Tripod adapter
<a href="#">GRAS RA0092</a>	Rain-protection Cap for array microphones
<a href="#">GRAS 42AP</a>	Intelligent Pistonphone, Class 0
<a href="#">GRAS 42AG</a>	Multifunction Sound Calibrator, Class 1

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# GRAS Worldwide

Subsidiaries and distributors in more than 40 countries

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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.

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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