

GRAS 40PP-10-S1

CCP QC



10 Hz - 20 kHz
33 dB(A) - 142 dB
9 mV/Pa (\pm 3 dB)

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20 kHz 33 dB(A) 142 dB

Typical applications and use

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

materials and workmanship.

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

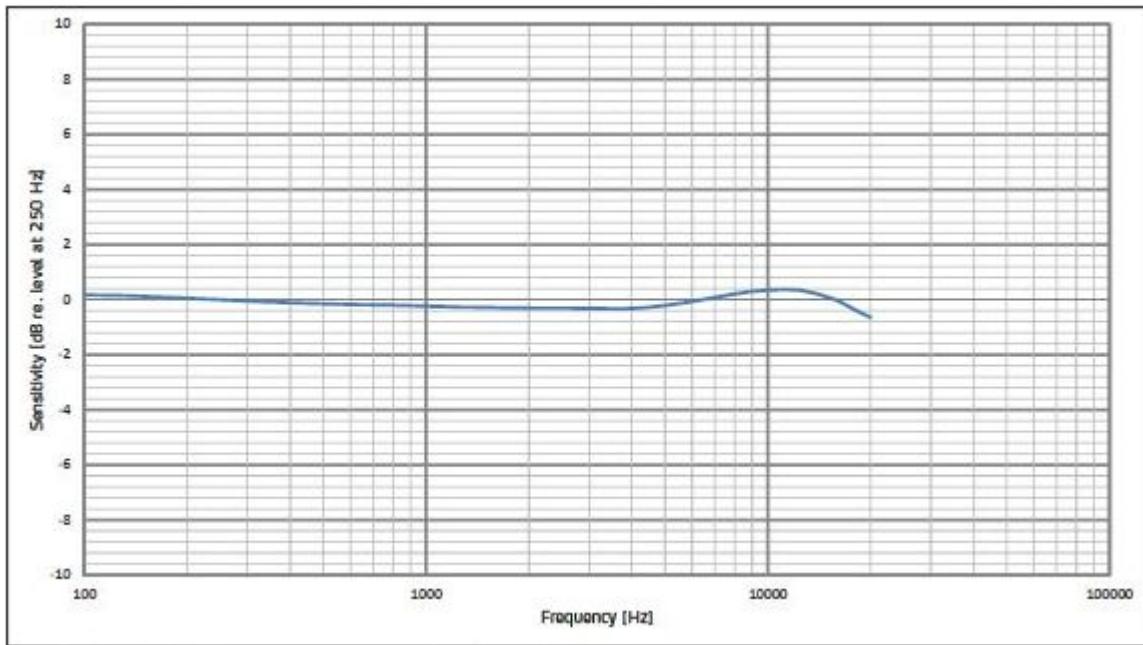
Calibration is easy with a GRAS pistonphone, such as the [GRAS 42AA](#), together with a ¼" microphone adapter.

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

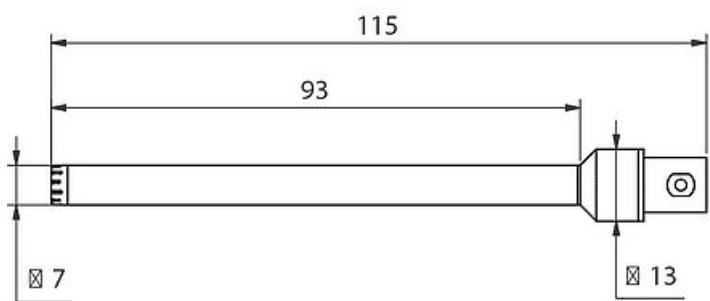
Polarization/Connection		0 V / CCP
Frequency range (± 1.5 dB)	Hz	50 to 5 k
Frequency range (± 2 dB)	Hz	10 to 20 k
Dynamic range lower limit (microphone thermal noise)	dB(A)	<33
Dynamic range upper limit	dB	142
Set sensitivity @ 250 Hz (± 3 dB)	dB re 1V/Pa	9
Power supply (Constant Current Power)	mA	2 to 20
Microphone venting		Front
Output impedance	Ω	<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 ²	dB re 20 μPa	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

GRAS Sound & Vibration

Dimensions in mm



GS0528
40PP



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

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
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
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
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
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

grasacoustics.com

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