

GRAS RA0018

20 dB Attenuator for
prepolarized 1/2" microphones



Length: 47.5 mm
Diam.: 12.70 mm

Recommendation: Choose a microphone with low sensitivity instead of using the RA0018.

RA0018 is a 20 dB attenuator for inserting between a 1/2" prepolarized microphone and preamplifier. It will attenuate the output signal of the microphone by 20 dB in order to avoid overloading of the preamplifier. The RA0018 is useful when measuring very high sound pressure levels using a preamplifier with limited dynamic range. The RA0018 will work properly only with prepolarized microphones. For externally-polarized microphones, use the RA0016.

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Introduction

The GRAS RA0018 is a 20 dB attenuator for inserting between a 1/2" prepolarized microphone and preamplifier. It will attenuate the output signal of the microphone by 20 dB in order to avoid overloading the preamplifier. The RA0018 is useful when measuring very high sound pressure levels using a preamplifier with limited dynamic range. The RA0018 will work properly only with prepolarized microphones. For externally polarized microphones, use the RA0016.

Design

For precision measurements, the actual combination of microphone, attenuator and preamplifier should be calibrated with a precision calibrator like GRAS 42AA Pistonphone. The attenuation of the microphone signal is obtained by a capacitive voltage divider, and depends on both the microphone capacity and the preamplifier input impedance.

Quality & Warranty

GRAS accessories are made of stainless steel, alloys and high-quality composites. These items are covered by a 2 year warranty respecting their intended use.

On consumables like batteries, cables and windscreens we offer a 6 month warranty.

GRAS Worldwide

Subsidiaries and distributors in more
than 40 countries

GRAS SOUND & VIBRATION A/S
Skovlytoften 33
2840 Holte
Denmark
Tel: +45 4566 4046
gras@gras.dk

GRAS SOUND & VIBRATION USA
2234 East Enterprise Parkway
Twinsburg, OH 44087
United States
Tel: +1 330 425 1201
sales@gras.us

GRAS SOUND & VIBRATION UK
Building 115
Bedford Technology Park Thurleigh,
MK44 2YA Bedford
United Kingdom
Tel: +44 1234 639552
sales@gras.co.uk

GRAS SOUND & VIBRATION CHINA LTD.
Rm 1606, Kodak House II
No. 39 Healthy Street East North Point
Hong Kong
China
Tel: +852 2833 9987
sales@gras.com.cn



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.

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