

| Accessories

GRAS Sound & Vibration offers a wide range of standard accessories in the form of cables, adapters, wind-screens and tripods for use in measuring setups.

These can be broadly divided into accessories for microphones, preamplifiers and outdoor microphones. Some are included with certain products, some are available as extras. All can be ordered individually.

The brief description given here as well as the information available on www.gras.dk will help you select what you need for your particular setup.

At all events, feel free to contact your local partner if you need advice or further information.

GRAS AF0008

Adapter for 1/2" Microphone and 1/4" Preamplifier



An inline barrel adapter for using 1/4" preamplifiers with 1/2" microphones. Included with 26AB Preamplifier.

GRAS RA0006

Right-angled (90°) Adapter for 1/4" Microphone and 1/4" Preamplifier



RA0006 is a right-angled adapter for using a 1/4" microphone with a 1/4" preamplifier. It can be used with any standard 1/4" microphone and 1/4" preamplifier such as 26AC.

GRAS GR0010

Adapter for 1/2" Microphone and 1/4" Preamplifier



An inline stub adapter for using 1/4" preamplifiers with 1/2" microphones. Included with 26AC, 26AL, 26AR and 26CB. Designed for GRAS microphones and 1/4" preamplifiers (see also RA0003).

GRAS RA0007

Straight Adapter for 1/4" Preamplifiers



7.5 mm straight adapter for placing between a 1/4" microphone and a 1/4" preamplifier. Included with GRAS 40BI 1/4" Intensity Microphone set.

GRAS RA0001

Right-angled (90°) Adapter for 1/2" Microphone and 1/4" Preamplifier



RA0001 is a right-angled adapter for using a 1/2" microphone with a 1/4" preamplifier. It can be used with any standard 1/2" microphone and 1/4" preamplifier such as 26AC. RA0001 is useful in situations where the microphone has to be flush mounted on a wall.

GRAS RA0016

20 dB Attenuator for Externally Polarized 1/2" Microphones



RA0016 is a 20 dB attenuator for inserting between a 1/2" microphone and preamplifier. It will attenuate the output signal of the microphone by 20 dB in order to avoid overloading the preamplifier or following analyzer. It will work properly only with externally polarized microphones. For prepolarized microphones, use RA0018.

GRAS RA0003

Adapter for 1/2" Microphone and 1/4" Preamplifier



RA0003 is an adapter for using a 1/2" microphone with a 1/4" preamplifier. It can be used with any standard 1/2" microphone and 1/4" preamplifier such as 26AC.

GRAS RA0017

Adapter for 1" Microphone and 1/2" Preamplifier



RA0017 is a head adapter for using a 1" microphone with a 1/2" preamplifier. It can be used with any standard 1" microphone and 1/2" preamplifier such as 26AK.

GRAS RA0018

20 dB Attenuator for Prepolarized 1/2" Microphones



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. RA0018 will work properly only with prepolarized microphones. For externally polarized microphones, use RA0016.

GRAS RA0022

1/4" Nosecone



RA0022 is a 1/4" nosecone for replacing standard protection grid of a 1/4" microphone when making acoustic measurements in laminar airflow. The tip should be pointed upstream in a laminar flow to reduce turbulence created by the microphone itself in the airflow.

GRAS RA0019

Adapter for 1/4" Microphone and 1/2" Preamplifier



RA0019 is an inline stub adapter for using 1/4" preamplifiers with 1/2" microphones. Included with 26AC, 26AL, 26AR and 26CB. Designed for GRAS microphones and 1/4" preamplifiers (see also RA0003).

GRAS RA0173

1/8" Nosecone



RA0173 is a 1/8" nosecone for replacing the standard protection grid of a 1/8" microphone when making acoustic measurements in laminar airflow. The tip should be pointed upstream in a laminar flow to reduce turbulence created by the microphone itself in the airflow.

GRAS RA0020

1/2" Nosecone



RA0020 is a 1/2" nosecone for replacing the standard protection grid of a 1/2" microphone when making acoustic measurements in laminar airflow. The tip should be pointed upstream in a laminar flow to reduce turbulence created by the microphone itself in the airflow.

GRAS RA0063

Adapter for 1/8" Microphone and 1/4" Preamplifier



RA0063 is an adapter for using a 1/8" microphone with a 1/4" preamplifier. It can be used with any standard 1/8" microphone and 1/4" preamplifier such as 26AC. To reduce attenuation of the microphone signal, the guard ring of the preamplifier is extended through RA0063.

GRAS RA0020-A

1/2" Nosecone



Similar to RA0020 but made of aluminum for lightness.

GRAS RA0190

Right-angled Adapter for 1/2" Microphone and 1/2" Preamplifier



Right-angled Adapter for 1/2" Microphone and 1/2" Preamplifier.

GRAS RA0067

Transmitter Adapter for 1/2" Prepolarized Microphones



RA0067 enables a prepolarized 1/2" microphone (typically a 40AD) to be used as a high impedance sound source. It takes a calibration signal directly from a signal generator.

This makes the microphone behave like an electrostatic loudspeaker which, in a coupler, has a frequency response as good as when operated as a microphone. It can also be used with externally polarized microphones, when used with 14AA Actuator Amplifier which superimposes + 200 VDC polarization on the calibration signal. RA0067 has a BNC connector.

Tools for Gripping Microphones

- RA0161** Tool for Gripping 1" Microphones
- RA0081** Tool for Gripping 1/2" Microphones
- RA0200** Tool for Gripping 1/4" Microphones
- RA0210** Tool for Gripping 1/8" Microphones



These gripping tools have a pair of soft, semi-circular jaws for gripping a microphone safely when unscrewing its protection grid or unscrewing it from a preamplifier.

GRAS RA0073

Adapter for 1" Microphone and 1/2" Preamplifier



RA0073 is an adapter for using a 1" microphone with a 1/2" preamplifier. The influence of RA0073 on the acoustic field is minimal.

GRAS RA0082

Adapter for 1/8" Microphone and 1/4" Preamplifier (long version)



RA0082 is an adapter for using a 1/8" microphone with a 1/4" preamplifier. It can be used with any standard 1/8" microphone and 1/4" preamplifier such as the 26AC. Its extended length improves high frequency performance by reducing diffraction effects. To reduce attenuation (see RA0063).

GRAS RA0077

NBS 9-A Coupler Adapter for 1/2" Microphone



RA0077 is an adapter for using a 1/2" microphone in the NBS 9-A Coupler RA0075.

GRAS RA0086

Transmitter Adapter for 1/4" Microphones



RA0086 is similar to RA0067 but is used with a 1/4" externally polarized microphone (typically a 40BP), which can then be used as a high impedance sound source, e.g. when calibrating an acoustic coupler such as RA0045. RA0086 has a microdot connector.

GRAS RA0091

Insulated 1/2" Microphone Protection Grid



For avoiding ground loops, e.g. with RA0085 in telephone testing set-ups using 43AD Ear Simulator Kit.

GRAS RA0096

1/4" 5-Click Microphone Holder, Stainless Steel



Adjustable, high quality, stainless steel tripod adapter for 1/4" microphones/preamplifiers. Angular adjustment: 180° in steps of 45°.

GRAS RA0092

Rain-protection Cap for Array Microphones



RA0092 is for use with GRAS array microphones 40PH and 40PL.

GRAS RA0117

Coupler Adapter for 1/2" to 1/4" Microphone



RA0117 is an adapter for mounting a 1/4" microphone in couplers designed for 1/2" microphones.

GRAS RA0093

1/2" 5-Click Microphone Holder, Stainless Steel



Adjustable, high quality, stainless steel tripod adapter for 1/2" microphones/preamplifiers. Angular adjustment: 180° in steps of 45°.

Microphone Holders

AL0008	1/2" Microphone Holder, POM
AL0028	7 mm Microphone Holder, POM
AL0029	1/4" Microphone Holder, POM
AL0035	1/8" Microphone Holder, POM (not shown)



GRAS RA0094

3-Click Array Microphone Holder, Stainless Steel



Adjustable, high quality, stainless steel tripod adapter for array microphones. Angular adjustment: 180° in steps of 45°.

GRAS RA0504

RA0504 1/2" GoPro Adapter, POM



A specially-designed adapter that ensures compatibility with GoPro mounting accessories.

Random Incidence Correctors

RA0122 For 1/2" free-field microphones

RA0357 For 146AE 1/2" Free-field Rugged Microphone set



For use with 1/2" Free-field microphones when measuring in random-incidence sound fields.

GRAS RA0127

Rain-protection Cap for 1/4" Microphones



RA0127 is for use with 1/4" microphones fitted with the protection grid provided which has a central matching threaded stud.

GRAS RA0131

Rain-protection Cap for 1/2" Microphones



RA0131 is for use with 1/2" microphones fitted with the protection grid provided which has a central matching threaded stud.

GRAS RA0262

Rain-resistant Grid for 1/2" Microphones



RA0262 is a rain-resistant grid for use with 1/2" microphones. It has a central threaded stud that can be used for mounting RA0131.

GRAS RA0132

Dehumidifier for 1/2" Microphones



For use when humidity levels are high and only with a rear-vented 1/2" microphone. An indicator placed on the side of the dehumidifier shows when it needs to be dried out before further use.

GRAS AL0003

Tripod Adapter for Microphones



AL0003 is an adapter with a swivel head for mounting 1/2" or 1/4" preamplifiers with microphones on tripods with a standard 1/4" UNC-20 thread.

Microphone Tripods

AL0004 Small Lightweight Microphone Tripod

AL0006 Microphone Tripod



The main features of the tripods are:

- Standard mounting thread (1/4" UNC-20)
- Crank-adjusted centre column
- Rubber feet
- Adjustable tripod legs with locks

AL0004

Compact, light-weight tripod.

- Max. height 123 cm
- Retracted 24 cm

AL0006

A versatile and robust tripod. As AL0004, but stronger and more stable.

- Max. height 166 cm
- Retracted 66 cm

GRAS AL0005

Swivel Head



For tripods with a standard 1/4" UNC-20 thread.

GRAS AL0013

1/4" Microphone Holder, Stainless Steel



AL0013 is an adapter for using 1/4" preamplifiers with microphones on tripods with a standard 1/4" UNC-20 thread. It is recommended for use with the swivel head AL0005.

GRAS AL0007

Clips for 1/4" Intensity Microphones



Microphone clips 12 mm and 25 mm for side-by-side mounting of a pair of 1/4" intensity microphones.

GRAS SK0017

Tripod Thread Insert



For adapting a female 3/8" UNC-16 thread to a female 1/4" UNC-20 thread.

GRAS AL0012

1/2" Microphone Holder, Stainless Steel



AL0012 is an adapter for mounting 1/2" preamplifiers with microphones on tripods with a standard 1/4" UNC-20 thread. It is recommended for use with the swivel head AL0005.

GRAS SK0057

Tripod Conversion Screw



For adapting the 3/8" UNC-16 thread of a tripod to 1/4" UNC-20 thread.

GRAS RA0011

Gooseneck



RA0011 is a 20 cm flexible gooseneck with 7-pin LEMO connectors for use with preamplifiers with integrated 7-pin LEMO connectors such as 26AJ, 26AK and 26AB. For example, it can be mounted between the preamplifier and a sound level meter in order to reduce reflections.

GRAS RA0140

Dummy 1" Microphone



For checking the inherent noise level of a preamplifier loaded purely by the capacitance of a 1" microphone.

GRAS RA0062

20 pF Input Adapter for 1/2" Preamplifiers



RA0062 is a 20pF input adapter for 1/2" preamplifiers. One end screws on to a 1/2" preamplifier and the other end has a BNC input connector. This enables connecting a signal generator to the input of the preamplifier. RA0062 can be used as a 20pF dummy load when short circuiting the BNC input.

GRAS RA0125

Adapter for Microdot Input to a 1/2" Preamplifier



RA0125 is an adapter for using a Microdot (UNF 10-32) input to a standard 1/2" preamplifier such as the 26AK. Useful when a high input impedance is required for transducers such as hydrophones and accelerometers. Including GR0010, it can be used with 1/4" preamplifiers as well, f.ex. 26AC.

GRAS RA0062-S1

50 pF Input Adapter for 1/2" Preamplifiers



RA0062-S1 is a 50pF input adapter for 1/2" preamplifiers. One end screws on to a 1/2" preamplifier and the other end has a BNC input connector. This enables connecting a signal generator to the input of the preamplifier. RA0062 can be used as a 50pF dummy load when short circuiting the BNC input.

GRAS AG0001

Adapter for 7-pin LEMO to B&K



The AG0001 is an adapter for a 7-pin LEMO connector and a traditional 7-Pin B&K microphone input connector.

GRAS RA0080

6 pF Input Adapter for 1/4" Preamplifiers



RA0080 is a 6pF input adapter for 1/4" preamplifiers. One end screws on to a 1/4" preamplifier and the other end has a Microdot (UNF 10-32) input connector. This enables connecting a signal generator to the input of the preamplifier. RA0080 can be used as a 6pF dummy load when short circuiting the Microdot input.

GRAS AG0002

CCP Input Adapter



An inline adapter for using a CCP preamplifier with a (constant-voltage) GRAS Power Module. One end plugs straight into the Power Module's input LEMO connector and the other end has a BNC socket for making a connection with a CCP preamplifier, e.g. CCP preamplifiers 26CB, 26CC (1/4") and 26CA, 26CF (1/2")

GRAS RA0083

BNC to 7-pin LEMO Adapter



For utilising the signal and signal-ground pins only of the 7-pin LEMO input of a preamplifier power supply.

GRAS AG0003

Adapter for CCP Preamplifier to XLR



AG0003 is an adapter for connecting a CCP compatible preamplifier to an input module with XLR connector and Phantom Supply (CCP) supply. AG0003 is provided with a BNC connector.

GRAS AC0001

Calibration Control Box for 41AM/41CN



AC0001 is a control box with local and remote facilities for switching on/off the actuator calibration of 41AM and 41CN Outdoor Microphone Systems. It also has a BNC output for analyzing the signals from these Outdoor Microphone Systems. It can be connected to a 12 – 18 V DC mains/line adapter for powering 41AM and 41CN.

GRAS AM0033

Tripod Adapter



For mounting 41AM/41CN Outdoor Microphones (fitted with Pole Adapter AM0029) on a tripod. Has 1 1/2" RG (ISO 228/1) male thread on top and 3/8" UNC-16 female thread at the bottom.

GRAS RA0087

Special Key



Used when dismantling the microphone assembly of the 41AM and 41CN Outdoor Microphone Systems.

GRAS AM0037

Transport Protection Cap



For protecting the microphone assembly in 41AM/41CN Outdoor Microphones.

GRAS AM0029

Pole Adapter



For mounting 41AM/41CN Outdoor Microphones on a pole. Has 1 1/2" RG (ISO 228/1) female thread. Also used with the Tripod Adapter AM0033 for mounting an Outdoor Microphone on a tripod.

GRAS AM0038

Multi Spanner/Wrench



For dismantling the microphone assembly of 41AM/41CN Outdoor Microphones.

CABLES FOR OUTDOOR MICROPHONES
– visit www.gras.dk

GRAS AM0009

Windscreens for 41AM/41CN



AM0009 is a set of five open-cell-structure foam windscreens for mounting on 41AM and 41CN Outdoor Microphone Systems.

GRAS RA0009

Adapter for Pistonphone calibration



RA0009 is an adapter for calibrating 41AM Outdoor Microphone System. It fits over the rain protection cap for 41AM and permits in-situ calibration using a pistonphone such as 42AA.

GRAS AM0052

Complete Windscreen/Birdspike for 41AM/41CN



AM0052 is a windscreen, complete with anti-bird spikes, for mounting on the 41AM and 41CN Outdoor Microphone Systems.

GRAS RA0041

Adapter for Pistonphone Calibration



RA0041 is an adapter for calibrating the 41CN Outdoor Microphone. It fits over the rain protection cap for 41CN and permits in-situ calibration using a pistonphone such as 42AA.

GRAS AM0089

Large Windscreen for 41AM/41CN



Spherical windscreen for 41AM and 41CN Outdoor Microphone Systems. Fits directly over the existing windscreen, accommodating the anti-bird spikes. Open-cell foam structure, 150 mm diameter.

IEC60318-4 Ear Simulator – Accessories for Testing of ITE Hearing Aids

GR0435 In-ear Adapter

GR0436 Tube Stud



GR0435



GR0436



For testing of ITE hearing aids with an IEC60318-4 Ear Simulator, GR0435 or GR0436 are needed. The illustration to the right shows the context in which they are needed.



IEC60318-4 Ear Simulator – Accessories for Testing of BTE Hearing Aids

GR0437 Ear-mould Simulator

GR0440 Tube stud

GR0438 Union nut

GR1176 Gasket



GR0437



GR0438



GR0440



GR1176



For testing of BTE hearing aids with an IEC60318-4 Ear Simulator, the items shown above are needed.

The illustration to the right shows the context in which they are used.



IEC60318-5 1/2" 2cc Coupler – Accessories for Testing of ITE Hearing Aids

GR0315 Gasket

GR0319 Tube Adapter

GR0317 Ear-mould Adapter

GR0320 Union nut

GR0318 Tube Adapter

GR0321 In-ear Adapter



GR0318



GR0315



GR0317



GR0319



GR0320



GR0321



For testing of ITE hearing aids with a RA0038 1/2" IEC60318-5 Ear Simulator, the items shown above are needed.

The illustration to the right shows the context in which they are used.



IEC60318-5 1" 2cc Coupler – Accessories for Testing of ITE Hearing Aids

GR0316	Union nut	RA0017	½" to 1" Adapter
GR0723	Tube Adapter	RA0114	¼"-button Adapter
OR5003	O-ring	RA0115	In-ear Adapter
OR5389	O-ring		



For testing of ITE hearing aids with an RA0113 1" IEC60318-5 Ear Simulator, the items shown above are needed.

The illustration to the right shows the context in which they are needed.

GRAS RA0052

Test Jig



For use with GRAS couplers and artificial ears. It has an adjustable spring-loaded arm to exert a variable force on the test object.

GRAS RA0070

Test Base for Ear Simulators



Test base for GRAS ear simulators and couplers.

GRAS RA0058

1/2" to 1" Microphone Adapter



Converts a 1/2" microphone (with grid removed) into a 1" microphone's dimensions (with grid). Allows mounting of 1" microphone protection grid. Typically used with 45CA Hearing-protector Test Fixture.

GRAS RA0076

Adapter for NBS 9-A Coupler RA0075



RA0076 is a thread adapter exclusively for use in connection with RA0052 Test Jig. It can also be used when upgrading the 43XX Series Ear Simulator Kits, except 43AF, where it is included.

GRAS RA0085

Insulated Coupling for Artificial Ear



Can be used as a substitute for the snap coupler GR0336 in the 43AD Ear Simulator Kit to avoid ground loops.

GRAS RA0088

In Ear Adapter



Moulding cup used to fit in-ear hearing aids to the RA0045 IEC60318-4 (former 60711) Ear Simulator.

GRAS RA0116

Adapter for 1/2" Microphone



For use with RA0113 2cc Coupler.

GRAS KB0110 & KB0111

Ear-mould Simulators



Ear-mould simulator for connecting a coupler holder to a BTE hearing aid via 2 mm (KB0110) or 3 mm (KB0111) plastic tubing.

GRAS RA0172

Pinna Holder Kit for 45CA



Used for 45CA when configured with IEC 60318-4 Ear Simulator and KEMAR pinna.

GRAS RA0307

Retrofit Kit with Anthropometric Pinna for 43AG and Knowles KEMAR



The kit contains the items needed for retrofitting an anthropometric pinna on a GRAS 43AG (produced before April 2016) and on a Knowles KEMAR (produced before 2005).

KEMAR Pinnae for GRAS 45BB, 45BC and 43AG



	Standard KEMAR Pinnae, Soft		Standard KEMAR Pinnae, Hard
KB1060	Small Right Pinna, 35 Shore 00	KB0060	Small Right Pinna, 55 Shore 00
KB1061	Small Left Pinna, 35 Shore 00	KB0061	Small Left Pinna, 55 Shore 00
KB1065	Large Right Pinna, 35 Shore 00	KB0065	Large Right Pinna, 55 Shore 00
KB1066	Large Left Pinna 35, Shore 00	KB0066	Large Left Pinna, 55 Shore 00
	Sound Quality/Wide Aperture KEMAR Pinnae, Soft		Sound Quality/Wide Aperture KEMAR Pinnae, Hard
KB1068	Small Right Pinna 35, Shore 00	KB0068	Small Right Pinna, 55 Shore 00
KB1069	Small Left Pinna 35, Shore 00	KB0069	Small Left Pinna 55, Shore 00
KB1090	Large Right Pinna, 35 Shore 00	KB0090	Large Right Pinna, 55 Shore 00
KB1091	Large Left Pinna, 35 Shore 00	KB0091	Large Left Pinna, 55 Shore 00
	Anthropometric Pinnae for KEMAR		3-D Simulation of KEMAR with Pinnae
KB5000	Large Right Anthropometric Pinna, 35 Shore 00	KB3000	45BB with Large Pinna, step file
KB5001	Large Left Anthropometric Pinna, 35 Shore 00	KB3001	45BB with Small Pinna, step file
KB5002	Large Right (mirrored left) Anthro. Pinna, 35 Shore 00	KB3002	45BB with Anthropometric Pinna, step file

Pinnae for GRAS 45CA



	Pinnae for 45CA, Soft and Anthro Pinna		Pinnae for 45CA, Hard
KB1070	Large Right Pinna, 35 Shore 00	KB0070	Large Right Pinna, 55 Shore 00
KB1071	Large Left Pinna, 35 Shore 00	KB0071	Large Left Pinna 55, Shore 00
KB5010	Right Anthropometric Pinna for 45CA, 35 Shore 00	KB0072	Small Right Pinna, 55 Shore 00
KB5011	Left Anthropometric Pinna for 45CA, 35 Shore 00	KB0073	Small Left Pinna 55, Shore 00

Pinnae for GRAS 45CB



	Pinnae for 45CB Ansi Head
KB0077	Large Right Pinna, 55 Shore 00
KB0078	Large Left Pinna, 55 Shore 00

Anthropometric Pinna Upgrade Kits for KEMAR

- RA0308** Anthropometric Pinna Upgrade Kit for KEMAR 2005 – 2013
RA0311 Anthropometric Pinna Upgrade Kit for KEMAR 2013 – present

GRAS RA0143

Ear Simulator Holder Kit for KEMAR



This retrofit kit enables mounting of the IEC 60318-4 (former 60711) Ear Simulator on KEMAR models earlier than 2005. It is delivered for one side with two types of ear canal extensions and microphone holders.



GR0917



GR0924



GR0958

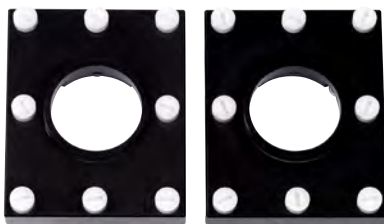


GR1153

	Pinnae for 45CB Ansi Head
GR0917	Straight Ear Canal Extension
GR0924	VA-tapered Ear Canal Extension
GR0958	Holder for long 1/2" microphone
GR1153	Holder for short 1/2" microphone

GRAS RA0251

GRAS KEMAR Retrofit Kit for Binaural Hearing Aid Test



For testing of binaural hearing aids using RF communication, POM versions of the straight and the tapered ear canal extensions are available. To obtain the desired effect of non-interference with RF communication inside the head, KEMAR must also be fitted with POM ear holder plates. These are included.



RA0249



RA0250

	Ear Canal Extensions (POM versions)
RA0249	Straight POM Ear Canal kit for Kemar, Ø 7.5 mm, 8.3 mm long. Standardized according to IEC60318-7
RA0250	Tapered POM Ear Canal Kit for Kemar. Ø 9.85 tapering down to Ø 7.5 mm, 7.4 mm long

GRAS RA0023

Coupler for 1" Microphones



Coupler for 1" microphones. For use with GRAS pistonphones.

GRAS RA0049

1/2" Adapter for 1/4" Microphones



1/2" adapter for 1/4" microphones. For use with GRAS pistonphones.

Couplers for two-port Calibration

RA0024

Coupler for two-port Calibration

RA0042

Coupler for two-port Calibration, high pressure



Two-port high couplers for 1/2" microphones. Used in comparison calibrations between two 1/2" microphones; one of which is a reference microphone. Can also be used in measuring the P-I (Pressure-Intensity) Index of intensity probes at 250 Hz.

RA0024 is for use with 42AA and 42AP Pistonphones.

RA0042 is a high-pressure version for use with the 42AC Pistonphone.

GRAS RA0069

1/2" Adapter for 1/8" Microphones



1/2" adapter for 1/8" GRAS microphones.

GRAS RA0060

Coupler for 1/2" Nosecone



For use when calibrating a microphone fitted with a RA0020 1/2" Nosecone using a GRAS pistonphone.

GRAS RA0119

Pistonphone Adapter



A pistonphone adapter for calibration checking the GRAS 43AE Ear Simulator when a pinna simulator is mounted on the RA0045 Ear Simulator.

GRAS RA0048

Coupler for 1/2" Microphones



Coupler for 1/2" microphones. For use with GRAS pistonphones.

GRAS RA0090

94 dB Pistonphone Coupler



A large-volume Coupler for enabling 42AA and 42AP Pistonphones to produce a sound pressure level of 94 dB instead of 114 dB re. 20 μ Pa. Essential when calibrating highly sensitive low-noise measuring systems, which would otherwise be overloaded by 114 dB.

GRAS PR0001

Module for Array Microphones, wired



PR0001 is a mounting rail for GRAS CCP array microphones, e.g. 40PH or 40PL. The rail has a single 3 m cable which terminates in a 7-pin male LEMO connector. Adapter cables are available for splitting the signals to BNC or SMB connectors.

The design allows multiple-array configurations to suit various measurement requirements. In all cases, the fixed distance is 50 mm, resulting in an upper frequency of 3.4 kHz.

Adapter Cables

AC0015 Split cable from rail to 6 BNC connectors

AA0016 Split cable from rail to 6 SMB connectors

GRAS PR0002

Module for Array Microphones, variable



PR0002 has 23 positions for microphones, spaced at 25 mm intervals. The microphones can also be spaced with intervals of 50 mm, 75 mm or 100 mm. CCP cable is used. The holder RA0185 is available for mounting array microphones with SMB connector, and a special holder RA0245 is available for mounting 1/4" microphone sets with Microdot connector. To be mounted on the AL0006 Tripod and the stainless-steel RA0094 Tripod Adapter (for 8 microphones). These are standard solutions, but GRAS also offers alternative sizes and shapes of array modules.



RA0185



RA0245

GRAS GR0625

End Piece Array Modules



For Array Module GRAS PR0001/PR0001-1 and PR0002.

CCP Cable Holders

RA0185 Holder for cable with SMB connector

RA0245 Holder for cable with Microdot connector

GRAS GR0630

Connecting Piece for Array Modules



Used to extend Array Module GRAS PR0001/PR0001-1 in the horizontal direction.

GRAS GR0107

Spacer Set for Array Modules



A set of 6 (50 mm) for PR0001/PR0001-1 Array Module.

GRAS AC0016

Cable for Array Module PR0001



One end has a LEMO connector which plugs into the array module and splits into six SMB outputs on the ends of short cables

GRAS GR0707

Spacer for Array



The 50 mm spacer is used to extend PR0001/PR0001-1 Array Module in the vertical direction.

GRAS AC0015

1-6 Split Cables for Array Modules



For use with PR0001 Array Module. One end has a LEMO connector, which plugs into the array module and splits into six BNC outputs on the ends of short cables.

GRAS AK0040

Standard 19" Rack Kit



AK0040 is a shelf for mounting instrument cabinets, e.g. GRAS Power Modules, and can itself be mounted in a standard 19" instrumentation rack via its flanges. It can house instruments 133 mm high and is wide enough to contain instruments up to a total width of 430 mm.

GRAS AB0002

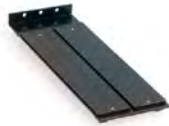
Mains Adapter EU



Regulated 230 V AC
– 15 V DC 7.5 W.
Connector for European Union.

GRAS AK0096

Mounting Plate



For mounting two GRAS Power Modules (12AA/12AK) side-by-side.

GRAS AB0003

Mains Adapter USA



Regulated 110 V AC
– 15 V DC 7.5 W.
Connector for United States.

GRAS AB0005

Mains Adapter, EU/UK/USA



SMPS regulated 100–240 V AC – 6 V DC 10 W.
Connector for European Union, United Kingdom, and United States.
Specify connector when ordering.

AB0006

Mains Adapter UK



Regulated 230 V AC – 15 V DC 7.5 W
Connector for United Kingdom.

CCP Coaxial Cables, BNC-BNC for 1/2" Microphone Sets



- AA0035 3 m
- AA0037 10 m
- AA0039-CL Customized length
- AA0056-CL (RG174) Customized length

CCP Coaxial Cables, SMB Angled-BNC For Array and QC Microphones



- AA0078 3 m
- AA0080 10 m
- AA0081-CL Customized length

CCP Coaxial Cables, Microdot-BNC for 1/4" and 1/8" Microphone Sets, max. temperature 70°C



- AA0070 3 m
- AA0071 5 m
- AA0072 10 m
- AA0073-CL Customized length

CCP Coaxial Cables, SMB-SMB For Array and QC Microphones



- AA0043 3 m
- AA0044 10 m
- AA0083-CL Customized length

CCP Coaxial Cables, Microdot-Microdot CCP Coaxial Cables, Microdot-Microdot



- AA0064 3 m
- AA0087-CL Customized length

CCP Coaxial Cable, SMB-Microdot CCP Coaxial Cable, SMB-Microdot



- AA0076-CL Customized length

CCP Coaxial Cables, SMB-BNC

CCP Coaxial Cables, SMB-BNC for Array and QC microphones



- AA0027 3 m
- AA0028 10 m
- AA0082-CL Customized length

High Temperature Cable, BNC-BNC for high-temperature applications



AA0095-CL Customized length

CCP High Temperature Cable, Microdot-Microdot CCP Coaxial Cable, max temperature 150°C



AA0064 3 m

CCP High Temperature Cable, Microdot-BNC CCP Coaxial Cables, Microdot-BNC for 1/4" and 1/8" Microphone Sets, max temperature 150°C



AA0018 3 m

AA0061-CL Customized length

CCP High Temperature, Microdot-SMB CCP Coaxial Cables, Microdot-SMB, max tempera- ture 150°C



AA0049 10 m

Watertight and Heat Resistant CCP Cables



- AA0107** 1 m BNC - BNC
- AA0108** 3 m BNC - BNC
- AA0109** 10 m BNC - BNC
- AA0110** 30 m BNC - BNC

These cables are watertight and can be used at temperatures up to 125°C, for example with the s146AE 1/2" CCP Free-field Microphone Set.

LEMO Cables - Standard

Standard Cables 1B 7-pin LEMO to 1B 7-pin LEMO



- AA0008** 3 m
- AA0009** 10 m
- AA0020-CL** Customized length
- AA0089-CL** Customized length for panel mounting

LEMO Cables - 4-pin to 7-pin

Standard Cables 4-pin LEMO to 1B 7-pin LEMO



- AA0057** 3 m

LEMO Cables for Outdoor Microphones

LEMO Cables for Outdoor Microphones



- AA0003** 3 m
- AA0002** 10 m
- AA0015** 100 m - on cable drum
- AA0016** 200 m - on cable drum

LEMO Cables - 5-pin to 7-pin

Standard Cables 5-pin LEMO to 1B 7-pin LEMO



- AA0091** 3 m
- AA0092-CL** Customized length

LEMO Cables for Low-noise Systems

LEMO Cables for Low-noise Systems



- AA0046** 3 m
- AA0047** 10 m
- AA0053-CL** Customized length

LEMO Cables for Intensity Probes

LEMO Cables for Intensity Probes



- AA0006** 2 m - 4-pin
- AA0021** 5 m - 12-pin

Adapter Cables for 50AI and 60LK



- AC0002** Adapter Cable for GRAS 50AI-B for use with 01dB Symphonie
- AC0003** Adapter cable 12-pin LEMO to 2 x 7-pin LEMO for GRAS 50AI-C.
- AC0005** Adapter Cable for GRAS 50AI-D for Use with Müller BBM and OROS analyzers
- AC0008** Adapter Cable for GRAS 50AI-D for Use with 01dB Harmonie and Soundbook
- AC0010** Adapter Cable 18-pin LEMO to 2 x 7-pin LEMO
- AC0025** 3 m LEMO 4-pin to 4 x BNC Adapter Cable for 60LK

GRAS AE0001

Male Plug for 41AM/41CN



6-pin LEMO FFA.2S.306 male plug as supplied with GRAS 41AM/41CN

GRAS AE0003

Male plug for LEMO for Preamplifier Cable



7-pin LEMO FGG.1B.307 male plug for preamplifier cables

GRAS AE0046

BNC male - Microdot Female Adapter



Used for a cable terminated with a Microdot connector to connect to a BNC female (e.g. Power Module/Input Module)

GRAS AE0074

BNC Female-female Adapter



This adapter is used for interconnecting two cables which are terminated with BNC male connectors

GRAS AE1002

7-pin LEMO 1B Series Female Connector



7-pin LEMO 1B series female connector for panel mounting

GRAS AE1003

7-pin LEMO 1B series female connector



7-pin LEMO 1B series female connector for cable mounting

GRAS PA0017

Drum for 100 m cable



The PA0017 is a cable drum for approximately 100 m microphone cable

GRAS PA0018

Drum for 200 m cable



The PA0018 is a cable drum for approximately 200 m microphone cable

Windscreens



The GRAS windscreens are all size optimized and their special, open-cell foam structure is designed to resist a humid environment and not influence the sound pressure measurement result significantly.

Frequency-dependent attenuation is to be expected, if the windscreen gets wet. Therefore windscreens are not intended as rain protection.

Large pressure fluctuations caused by turbulence can be attenuated by up to 20 dB.

GRAS AM0069

Spherical Windscreen for 1/2" Microphones



Spherical windscreen for 1/2" microphones

GRAS AI0001

Elliptical Windscreen for Intensity Probes



Provides good protection at wind speeds of more than 0.5 m/s and is able to reduce pressure fluctuations caused by turbulence by up to 20 dB.

GRAS AM0071

Spherical Windscreen for 1/4" microphones



Spherical windscreen for 1/4" microphones

GRAS AM0364

Spherical Windscreens for Array Microphones



Spherical windscreens for array microphones

GRAS AM0363

Spherical Windscreen for 1" Microphones



Spherical windscreen for 1" microphones

GRAS AM0376

Elliptical Windscreen for Rugged CCP Intensity Probes



Fits the rugged CCP Intensity Probe 50GI-P and 50GI-RP.