

GRAS 45BC-3

KEMAR

1 LEMO



(200 V/LEMO)

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ANSI: S3.36, S3.25

IEC: 60318-4

ITU-T Rec. P.57 Type 3.3 based on ITU-T
Rec. P.58

45BC-3 KEMAR

KEMAR

45EA CCP

1-Ch CCP

1 LEMO IEC 60318-4

45BC-3

[GRAS 45BC-4 KEMAR](#)

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KEMAR Knowles 1972
KEMAR.us) ANSI
S3.36/ASA58-2012 IEC 60318-7:2011

KEMAR KEMAR
[45EA Handset Positioning System.](http://45EA.com)

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45BC-3 KEMAR
45EA

45BC-3 USB

45BC-3 GRAS RA0045 60318-4
KB1065/KB1066 45EA

GRAS ITU-T P51

1/3 100 dB 20 μ Pa 100 Hz 16
kHz

60318-4

RA0045

IEC 60318-4 ITU-T P.57

[RA0045](http://RA0045.com)

KB0065/KB0066 Pinnae

KB0065 KB0066 35 Shore 00 IEC
ITU-T

45EA

45EA

Specifications

Connector type		7-pin LEMO (FGG.1B.307)
Set sensitivity @ 250 Hz (± 2 dB)	mV/Pa	12.5
Set sensitivity @ 250 Hz (± 2 dB)	dB re 1V/Pa	-38.5
Theoretical dynamic range lower limit with GRAS preamplifier	dB(A)	25
Theoretical dynamic range upper limit with GRAS preamplifier @ +28 V / ± 14 V power supply	dB	151
Theoretical dynamic range upper limit with GRAS preamplifier @ +120 V / ± 60 V power supply	dB	163
Resonance frequency	kHz	13.5
Temperature range, operation	°C / °F	-30 to 60 / -22 to 140
Temperature range, storage	°C / °F	-40 to 65 / -40 to 149
Humidity range non condensing	% RH	0 to 95
ANSI standard		S3.36, S3.25
IEC standard		60318-4 (former 60711), 60318-7 (former 60959)
ITU-T recommendations		P.380
Weight	g / oz	11.45 k / 404
MOUTH SIMULATOR		.
Output impedance	Ω	8
Maximum power, continuous	W	10
Maximum power, pulsed 2 sec.	W	50

GRAS Sound & Vibration



GRAS 45BC	KEMAR Head & Torso with GRAS mouth simulator, non-configured
GRAS KB1065	KEMAR Large Right Ear 35 Shore 00
GRAS KB1066	KEMAR Large Left Ear 35 Shore 00
GRAS RA0237	Straight Ear Canal Extension Kit for KEMAR (2 pcs)
GRAS RA0045	IEC 60318-4 Ear Simulator
GRAS 26AS-S3	1/4" Preamplifier, Short version with 0.4 m cable
GRAS GR0010	Adapter for 1/2" Microphone and 1/4" Preamplifier
GRAS GR0408	External Ear Canal (2 pcs)
GRAS GR0409	Union Nut
GRAS AA0008	LEMO 7-pin - LEMO 7-pin Cable, 3 m, 2 pcs
GRAS 45EA	Handset Positioning System for KEMAR
GRAS 46BP-1	1/4" LEMO Pressure Microphone Set



Power Modules for Externally Polarized Ear Simulators and Microphones

GRAS 12AK	1-Channel Power Module with gain, filters and SysCheck generator
GRAS 12AD	1-Channel Power Module
GRAS 12AA	2-Channel Power Module with gain, filters and SysCheck generator
GRAS 12AR	2-Channel Power Module
GRAS 12AQ	2-Channel Universal Power Module with signal conditioning and PC interface

For Ear Simulator Calibration

GRAS 42AP	Intelligent Pistonphone (250 Hz or 251.2 Hz, 114 dB +/- 0.05 dB)
GRAS 42AA	Pistonphone (250 Hz, 114 dB +/- 0.08 dB)
GRAS RA0157	1/2" Calibration Adapter for KEMAR Pinna

Pinna Simulators

GRAS KB0060	KEMAR Small Right Ear 55 Shore 00
GRAS KB0061	KEMAR Small Left Ear 55 Shore 00
GRAS KB0065	KEMAR Large Right Ear 55 Shore 00
GRAS KB0066	KEMAR Large Left Ear 55 Shore 00
GRAS KB1060	KEMAR Small Right Ear, 35 Shore 00
GRAS KB1061	KEMAR Small Left Ear 35 Shore 00
GRAS KB1065	KEMAR Large Right Ear 35 Shore 00
GRAS KB1066	KEMAR Large Left Ear 35 Shore 00
GRAS KB0090	KEMAR Large Right Ear (VA-Style/SQ) 55 Shore 00
GRAS KB0091	KEMAR Large Left Ear (VA-Style/SQ) 55 Shore 00
GRAS KB1090	KEMAR Large Right Ear (VA-Style) 35 Shore 00
GRAS KB1091	KEMAR Large Left Ear (VA-Style) 35 Shore 00

Ear Mould Simulators

GRAS KB0110	Ear Mould Simulator for 2 mm Inner diameter tubing
GRAS KB0111	Ear Mould Simulator for 3 mm Inner diameter tubing

Ear Canal Extension and Microphone Holder Kits (kits with 2 pcs and O-rings)

GRAS RA0237	Straight Ear Canal Extension Kit for KEMAR
GRAS RA0238	VA-tapered Ear Canal Extension Kit for KEMAR
GRAS RA0239	Ear canal Extension Kit w. silicone lining for KEMAR
GRAS RA0240	Holder for long 1/2" microphone Kit for KEMAR
GRAS RA0241	Holder for short 1/2" microphone Kit for KEMAR
GRAS RA0243	Holder for 1/2" microphone Kit for KEMAR
GRAS RA0244	O-ring kit for KEMAR, 2 pcs.
GRAS RA0249	Straight Ear Canal Extension Kit for KEMAR, made of POM, for binaural hearing aid test

GRAS RA0250

Tapered Ear Canal Extension Kit for KEMAR, made of POM, for binaural hearing aid test

KEMAR Retrofit Kit for Binaural Hearing Aid Test

[GRAS RA0251](#)

KEMAR Retrofit Kit for Binaural Hearing Aid Test:

The Kit includes Ear Holder Plates, mounting bolts and the RA0249 and RA0250 Ear Canal Extension Kits. Included items are made of POM, Nylon and Teflon.

Extension Cables

[GRAS AA0008](#)

LEMO 7-pin - LEMO 7-pin Cable, 3 m

[GRAS AA0009](#)

LEMO 7-pin - LEMO 7-pin Cable, 10 m

Flight Case

GRAS KM0094

PELI Case for KEMAR

Simulation Model of KEMAR

GRAS KB3000

Simulation Model of KEMAR with large pinnae

GRAS KB3001

Simulation Model of KEMAR with small pinnae

Stand for KEMAR

GRAS AL0026

Loudspeaker stand for KEMAR, Ø 35 mm

Miscellaneous

GRAS KB0000

KEMAR Handbook

GRAS KB0010

T-Shirt for KEMAR

GRAS Sound & Vibration

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 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

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