

GRAS 45BC-2

KEMAR

2 CCP



CCP
2

ANSI: S3.36, S3.25

IEC: 60318-4

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

45BC-2

KEMAR

LEMO

LEMO

TEDS 2-Ch CCP

[GRAS 45BC-1 KEMAR](#)

IEC 60318-4

45BC-2

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

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45BC KEMAR 45BC KEMAR
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TEDS □□□

CCP KEMAR IEEE 1451.4 TEDS v. 1.0
TEDS

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45BC-2 KEMAR

USB

45BC-2 GRAS 60318-4 RA0045-S1
KB0065/KB0066

GRAS ITU-T P51

1/3 100 dB 20 µPa 100 Hz 16
kHz

60318-4

RA0045-S1

IEC 60318-4 ITU-T P.57

[RA0045-S1](#)

KB0065/KB0066 Pinnae

KB0065 KB0066 55 Shore 00 IEC
ITU-T

Connector type		3 m 7-pin LEMO
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 CCP preamplifier	dB	146
Resonance frequency	kHz	13.5
Temperature range, operation	$^{\circ}\text{C}$ / $^{\circ}\text{F}$	-30 to 60 / -22 to 140
Temperature range, storage	$^{\circ}\text{C}$ / $^{\circ}\text{F}$	-40 to 65 / -40 to 149
Humidity range non condensing	% RH	0 to 95%
ANSI standard		S3.36, S3.25
IEC standard		60318-7
ITU-T recommendations		P. 58
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
Input impedance	k Ω	20
Gain	dB	10
Input signal, max.	Vrms	2
Power supply, external	Vdc	24

GRAS Sound & Vibration



GRAS 45BC	KEMAR Head & Torso with GRAS mouth simulator, non-configured
GRAS KB0065	KEMAR Large Right Ear 55 Shore 00
GRAS KB0066	KEMAR Large Left Ear 55 Shore 00
GRAS RA0237	Straight Ear Canal Extension Kit for KEMAR (2 pcs)
GRAS RA0045-S1	IEC 60318-4 Ear Simulator, (Prepol.version, 2 pcs)
GRAS 26CS	1/4" CCP Standard Preamplifier with Microdot Connector, Very Short (2 pcs)
GRAS RA0001	Adapter for 1/2" Microphone and 1/4" Preamplifier (2 pcs)
GRAS GR0408	External Ear Canal (2 pcs)
GRAS GR0409	Union Nut (2 pcs)
GRAS AA0018-S	Microdot-BNC Cable, 35 cm (2 pcs)
GRAS AA0035	3 m BNC - BNC Cable (2 pcs)
GRAS 46BD	1/4" CCP Pressure Standard Microphone Set
GRAS AA0070	Microdot-BNC Cable, 3 m



Power Modules for Pre-polarized Ear Simulators and Microphones

GRAS 12AL	1-Channel CCP Power Module with A-weighting filter
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 AA0034

BNC-BNC Cable, 2 m

[GRAS AA0035](#)

BNC-BNC Cable, 3 m

GRAS AA0036

BNC-BNC Cable, 5 m

[GRAS AA0037](#)

BNC-BNC 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

grasacoustics.com

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