

LEMO MICROPHONE SETS

FREE-FIELD AND RANDOM INCIDENCE

GRAS 46AC

1/2" LEMO Free-field Standard Microphone Set, Wide Frequency



46AC is a high-performance 1/2" free-field standard microphone set for measuring medium sound pressure levels at high frequencies; with built-in TEDS and 7-pin LEMO connector.

GRAS 46BF-1

1/4" LEMO Free-field Standard Microphone Set



46BF-1 is a 1/4" high frequency free-field microphone set for high level measurements with built-in TEDS and a 5-pin LEMO connector.
To be used with AA0091 or AA0092-CL 5-pin to 7-pin LEMO cable.

GRAS 46AF

1/2" LEMO Free-field Standard Microphone Set



46AF is a 1/2" general purpose high sensitivity free-field microphone set with built-in TEDS and 7-pin LEMO connector.

GRAS 46AR

1/2" LEMO Random incidence Standard Microphone Set



46AR is a 1/2" high sensitivity random incidence microphone set optimized to measure sound correctly in random, diffuse and reverberant sound fields; with built-in TEDS and 7-pin LEMO connector.

	Nominal Sensitivity	Frequency Response	Power Supply	Dynamic Range	Temperature Range	Length	Diameter without Protection Grid	Diameter with Protection Grid	Weight
46AC	12.5	3.15 - 40 k	28 - 120	20 dB(A) to 164 dB	-30 to +70	97	12.7	13.2	42
46AF	50	3.15 - 20 k	28 - 120	17 dB(A) to 149 dB	-30 to +70	101	12.7	13.2	42
46AR	50	3.15 - 16 k*	28 - 120	19 dB(A) to 149 dB	-30 to +70	101	12.7	13.2	42
46BF-1	3.6	4 - 100 k	28 - 120	35 dB(A) to 172 dB	-30 to +70	69	6.35	6.9	10
Units	mV/Pa	Hz	V DC	re. 20 µPa	°C	mm	mm	mm	g

* ±3 dB. All other ±2 dB.

GRAS 46AG

1/2" LEMO Pressure Standard Microphone Set



46AG is a 1/2" high precision pressure microphone set for laboratory work and coupler measurements with built-in TEDS and 5-pin LEMO connector.

To be used with AA0091 or AA0092-CL 5-pin to 7-pin LEMO cable. A front-vented version is available, 46AG-FV.

GRAS 46BP-1

1/4" LEMO Pressure Standard Microphone Set



46BP-1 is a 1/4" LEMO microphone set for pressure measurements for measuring high sound pressure levels at high frequencies, with a 5-pin LEMO connector.

To be used with AA0091 or AA0092-CL 5-pin to 7-pin LEMO cable.

GRAS 46AP

1/2" LEMO Pressure Standard Microphone Set, High Sensitivity



46AP is a 1/2" general purpose pressure microphone set with built-in TEDS and 7-pin LEMO connector.

GRAS 46DP-1

1/8" LEMO Pressure Standard Microphone Set



46DP-1 is a 1/8" pressure microphone set with built-in TEDS and a 5-pin LEMO connector.

To be used with AA0091 or AA0092-CL 5-pin to 7-pin LEMO cable.

GRAS 46BH-1

1/4" LEMO Pressure Standard Microphone Set, High Pressure



46BH-1 is a 1/4" high pressure microphone set with built-in TEDS and a 5-pin LEMO connector. With a dynamic range topping at 193 dB it is ideal for measuring at very high sound pressure levels.

To be used with AA0091 or AA0092-CL 5-pin to 7-pin LEMO cable.

	Nominal Sensitivity	Frequency Response	Power Supply	Dynamic Range	Temperature Range	Length	Diameter without Protection Grid	Diameter with Protection Grid	Weight
46AG	12	3.15 - 20 k	28 - 120	25 dB(A) to 164 dB	-30 to +70	101	12.7	13.2	42
46AP	50	3.15 - 10 k	28 - 120	18 dB(A) to 149 dB	-30 to +70	101	12.7	13.2	42
46BH-1	0.4	10 - 20 k	28 - 120	54 dB(A) to 193 dB	-30 to +70	69	6.35	6.9	10
46BP-1	1.5	4 - 70 k	28 - 120	39 dB(A) to 169 dB	-30 to +70	69	6.35	6.9	10
46DP-1	0.9	6.5 - 140 k	28 - 120	52 dB(A) to 178 dB	-30 to +70	90	3.2	3.5	8
Units	mV/Pa	Hz	V DC	re. 20 µPa	°C	mm	mm	mm	g

CCP MICROPHONE SETS

FREE-FIELD, RANDOM INCIDENCE AND PRESSURE

GRAS 146AE

1/2" CCP Free-field Microphone Set



146AE is a versatile 1/2" free-field measurement microphone set for the broadest range of noise measurements in challenging environments. It is well protected against vibrations, humidity, dust, oil mists, and temperatures from -40 to 125°C. *A comprehensive range of accessories is available, visit www.gras.dk.*

GRAS 46AM

1/2" CCP Free-field Standard Microphone Set, Wide Frequency



46AM is a 1/2" CCP microphone set for measuring medium sound pressure levels at a wide range of frequencies; with built-in TEDS and a BNC connector.

GRAS 46AE

1/2" CCP Free-field Standard Microphone Set



46AE is a 1/2" free-field general purpose high sensitivity microphone set with built-in TEDS and BNC connector.

GRAS 46AQ

1/2" CCP Random Incidence Standard Microphone Set



46AQ is a 1/2" CCP high sensitivity random incidence microphone set, optimized to measure sound correctly in random, diffuse and reverberant sound fields; with built-in TEDS and BNC connector.

GRAS 46BE

1/4" CCP Free-field Standard Microphone Set, Wide Frequency



The GRAS 46BE is a 1/4" Constant Current Power CCP free-field microphone set for measuring high sound pressure levels at high frequencies. It is terminated with a 10/32 UNC Microdot female connector and has TEDS. *A high-temperature version is available, 46BE-HT.*

GRAS 46A0

1/2" CCP Pressure Standard Microphone Set



46A0 is a 1/2" pressure high precision microphone set for laboratory work. Including built-in TEDS and BNC connector. *A front-vented version is available, 46A0-FV.*

	Nominal Sensitivity	Frequency Response	Power Supply	Dynamic Range	Max. Output Peak Voltage	Temperature Range	Length	Diameter without Protection Grid	Diameter with Protection Grid	Weight
146AE	50	3.15 - 20 k	2-20	18 dB(A) to 138 dB	8	-40 to +125	86.5	12.7	14.5	35
46AE	50	3.15 - 20 k	2 - 20	17 dB(A) to 138 dB	8	-30 to +85	84	12.7	13.2	40
46BE	3.6	4 - 80 k	2 - 20	35 dB(A) to 160 dB	8	-30 to +85	53	6.35	6.9	10
46AM	14.5	3.15 - 31.5 k	2 - 20	25 dB(A) to 149 dB	8	-30 to +85	90	12.7	13.2	40
46AQ	50	3.15 - 12.5 k	2 - 20	17 dB(A) to 138 dB	8	-30 to +85	101	12.7	13.2	40
46A0	12	3.15 - 20 k	2 - 20	25 dB(A) to 150 dB	8	-30 to +85	80	12.7	13.2	39
Units	mV/Pa	Hz	mA	re. 20 µPa	V	°C	mm	mm	mm	g

GRAS 46AD

1/2" CCP Pressure Standard Microphone Set, High Sensitivity



46AD is a 1/2" pressure high sensitivity microphone set with built-in TEDS and BNC connector.

GRAS 46BL

1/4" CCP Pressure Microphone Set, High Sensitivity



46BL is a 1/4" microphone set for high sensitivity and low-noise measurement with built-in TEDS and a Microdot connector.

A high-temperature version is available, 46BL-HT.

GRAS 46BD

1/4" CCP Pressure Standard Microphone Set



46BD is a 1/4" pressure microphone set with low sensitivity for high level and high frequency measurements, with built-in TEDS and Microdot connector.

A front-vented version is available, 46BD-FV.

A version with SMB connector is available, 46BD-S1.

GRAS 46DD

1/8" CCP Pressure Standard Microphone Set



46DD is a low sensitivity microphone set for sound measurements at high frequencies. With built-in TEDS and Microdot connector.

A front-vented version is available, 46DD-FV.

GRAS 46BG

1/4" CCP Pressure Standard Microphone Set, High Pressure



46BG is a 1/4" microphone set for high level measurement with built-in TEDS and a Microdot connector. Its low sensitivity and special-designed diaphragm make it ideal for handling high levels.

A front-vented version is available, 46BG-FV.

GRAS 46DE

1/8" CCP Pressure Standard Microphone Set



46DE is a 1/8" CCP Pressure Microphone Set with Microdot connector. The preamplifier is 1/8", making it the world's smallest microphone set.

	Nominal Sensitivity	Frequency Response	Power Supply	Dynamic Range	Max. Output Peak Voltage	Temperature Range	Length	Diameter without Protection Grid	Diameter with Protection Grid	Weight
46AD	50	3.15 - 10 k	2 - 20	18 dB(A) to 138 dB	8	-30 to +85	94	12.7	13.2	40
46BD	1.45	4 - 70 k	2 - 20	44 dB(A) to 166 dB	8	-30 to +85	53	6.35	6.9	10
46BG	0.25	3.15 - 70 k	2 - 20	60 dB(A) to 184 dB	8	-30 to +85	53	6.35	6.9	8
46BL	18	4 - 20 k	2 - 20	25 dB(A) to 147 dB	8	-30 to +85	53	6.35	6.9	8
46DD	0.8	6.5 - 70 k	2 - 20	52 dB(A) to 174 dB	8	-30 to +85	64	3.2	3.5	8
46DE	0.8	6.5 - 70 k	2 - 20	52 dB(A) to 174 dB	8	-30 to +85	38.2	3.2	3.5	7
Units	mV/Pa	Hz	mA	re. 20 µPa	V	°C	mm	mm	mm	g