GRAS 40PH-10

CCP Free-field Array Microphone



Cost-effective free-field microphone for general-purpose measurements in arrays and matrices with a nominal sensitivity of 50 mV/Pa. It has a wide frequency range up to 20 kHz and a dynamic range from 33 dB(A) to 135 dB. Its integrated CCP preamplifier and built-in TEDS enables it to be used with TEDS compatible input modules.

GRAS 40PL-10

CCP Free-field Array Microphone, High Pressure



Cost-effective microphone for general-purpose measurements in arrays and matrices with a nominal sensitivity of 9 mV/Pa. It has a wide frequency range up to 20 kHz and a large dynamic range from 33 dB(A) to 142 dB. Its integrated CCP preamplifier and built-in TEDS enables it to be used with TEDS compatible input modules.

GRAS 40PL-11

CCP Free-field Array Microphone, High Pressure, Short



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40PL-11 is a short version of 40PL-10. The specifications are the same, but it is only 34 mm long.

50 mV/Pa (nominal)	
30 mv/Fa (nominal)	9 mV/Pa (nominal)
< 33 dB(A) re. 20 µPa	< 33 dB(A) re. 20 µPa
135 dB re. 20 µPa	142 dB re. 20 µPa
50 Hz – 5 kHz	50 Hz – 5 kHz
10 Hz – 20 kHz	10 Hz – 20 kHz
±5°	±5°
< 50 Ω	< 50 Ω
	135 dB re. 20 μPa 50 Hz – 5 kHz 10 Hz – 20 kHz ±5°

GRAS 67AX

ø40 cm CCP Ground Array Microphone Kit



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The GRAS ground array kits are developed for fixed-wing aircraft and rotorcraft flyover measurements in phased arrays, where the noise is mapped for research or approval purposes.

The design offers a practical alternative to the conventional up-side-down microphone setup. They are based on customized version of the 47AX flush-mount pressure microphone set, integrated into a Ø40 cm POM plate, which is easy to position and calibrate in the field.

Includes the GRAS 47AX-S1½" CCP Flush-mount Microphone Set, which is a rear-vented version of 47AX.

Specifications	47AX
Nominal Sensitivity	12.5 mV/Pa at 250 Hz
Frequency Response	3.15 Hz - 20 kHz (± 2.0 dB) 5 Hz - 12.5 kHz (± 1.0 dB)
Dynamic Range	Upper limit; 150 dB re. 20 µPa (3% distortion) Thermal noise; 22 dB(A) re. 20 µPa
Temperature	- 30°C to + 70°C (operation) - 40°C to + 85°C (storage)
Static Pressure Coefficient	-0.008 dB/kPa (250 Hz / 25°C)
Dimensions	Diameter; Microphone: 12 mm—Preamplifier: 18 mm
Height of Microphone Set	With grid: 9.2 mm / Without grid: 8 mm
Weight	9 g

