

# GRAS 12BB

4-Channel CCP Power Module with TEDS Support



Microphone power: CCP  
Channel(s): 4  
TEDS via USB

12BB is a 4-channel CCP power module. It has TEDS support and is powered by USB.

The GRAS 12BB is a four-channel USB-powered CCP power module with TEDS support.

It provides power to four microphone sets without signal degradation, gain modification, or attenuation.

It is intended as a simple and cost-effective interface between TEDS-enabled measurement microphones and any [Audio Precision APx series analyzer](#), which will automatically extract TEDS data for seamless integration.

However, it can also be used with other brands. In this case, a utility program provides access to TEDS data on a PC. It can be downloaded [here](#).

Power for the 12BB is provided through a USB cable using a USB 2.0 or USB 3.0 port and a USB-C port on the power module.

A single-channel version is available, the 12BA.

Type		Constant Current Power (CCP)
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## USB Interface

Interface		Type A Peripheral Interface
Version		USB C/USB 2.0
Power		USB +5 V, 500 mA max

## Microphone Channel

Channel(s)		4 x BNC
Max input voltage (limited by 24 V microphone power)	$V_{peak}$	24
Power	mA	4
Coupling		AC, 10 Hz high-pass filter

## General

Bandwidth	Hz	10 to 20 ( $\pm 0.06$ dB) 20 to 200 k ( $\pm 0.03$ dB)
Noise, input shorted, 10 Hz to 20 kHz	$\mu V$ RMS	< 2.0
Temperature range, operation	$^{\circ}C$ / F	0 to +45 / 32 to 113
Temperature range, storage	$^{\circ}C$ / F	-40 to +75 / -40 to 167
Humidity	Up to 40 $^{\circ}C$ /104 F	90%, non-condensing
EMC		EN 61326-1: 2013 Class B
Safety		UL/EN/IEC 62368-1, Second Edition
Dimensions, width x height x depth	mm inches	108 x 44.2 x 193.8 4.25 x 1.74 x 7.63
Weight	g/oz	510/18

## Included

GRAS 12BB	CCP Power Module with USB Connection
	USB Cable

## Optional

GRAS AA0033	BNC-BNC cable, 1 meter
GRAS AA0034	BNC-BNC cable, 2 meters
GRAS AA0035	BNC-BNC cable, 3 meters

# GRAS Worldwide

Subsidiaries and distributors in more  
than 40 countries

## HEAD OFFICE, DENMARK GRAS SOUND & VIBRATION

Skovlytoften 33  
2840 Holte  
Denmark  
Tel: +45 4566 4046  
[www.grasacoustics.com](http://www.grasacoustics.com)  
[gras@grasacoustics.com](mailto:gras@grasacoustics.com)

## USA GRAS SOUND & VIBRATION

5750 S.W. Arctic Drive  
Beaverton, OR 97005  
Tel: 503-627-0832  
Toll Free: 800-231-7350  
[www.grasacoustics.com](http://www.grasacoustics.com)  
[sales-usa@grasacoustics.com](mailto:sales-usa@grasacoustics.com)

## CHINA GRAS SOUND & VIBRATION

Room 303, Building T6  
Hongqiaohui, 990, Shenchang Road  
Minhang District, Shanghai  
China, 201106  
Tel: +86 21 64203370  
[www.gras.com.cn](http://www.gras.com.cn)  
[cnsales@grasacoustics.com](mailto:cnsales@grasacoustics.com)



## 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 to industries where acoustic measuring accuracy and repeatability is of utmost importance in R&D, QA and production. This includes applications and solutions for customers within the fields of aerospace, automotive, audiology, and consumer electronics. GRAS microphones are designed to live up to the high quality, durability and accuracy that our customers have come to expect and trust.

**GRAS** Sound & Vibration