

GRAS 12BA, 12BE AND 12BB

CCP Power Modules with TEDS Support



Microphone power: CCP
Channel(s): 1, 2, or 4
TEDS via USB

12BA, 12BE and 12BB are 1-, 2- and 4-channel CCP power modules, respectively. They have SysCheck2™ and TEDS support and are powered by USB.

The GRAS 12BA, 12BE and 12BB are, respectively, single- two- and four-channel USB-powered CCP power modules with TEDS support, and they are able to take full advantage of GRAS [SysCheck2™](#)-enabled microphones, such as [GRAS 246AE](#).

These power modules provide power to microphone sets without signal degradation, gain modification, or attenuation.

This series excels 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. Full

SysCheck2™ functionality is also automatically available when connected to [APx500 release v7.0 Measurement Software](#) with GRAS 12BA, 12BE, or 12BB power modules and an [Audio Precision APx series analyzer](#), or with an [Audio Precision APx series analyzer](#) with CCP and TEDS read capability.

However, these power modules can also be used with other brands. In this case, a TEDS utility program provides access to TEDS data on a PC. Download [TEDS utility program here](#). The SysCheck2 Software Development Kit is available from the microphone product pages.

Power for the 12Bx series 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.

If more channels are needed, multiple power modules can be used concurrently.



USB Interface

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

Microphone Channel

| | | |
|--|------------|----------------------------|
| Channel(s) | | 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 (± 0.06 dB) 20 to 200 k (± 0.03 dB) |
| Noise, input shorted, 10 Hz to 20 kHz | μV RMS | < 2.0 |
| Temperature range, operation | °C / F | 0 to +45 / 32 to 113 |
| Temperature range, storage | °C / F | -40 to +75 / -40 to 167 |
| Humidity | Up to 40 °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 (12BA 12BE 12BB) | g/oz | 397/14 435/15.3 510/18 |

Included

| | |
|----------------------------|--------------------------------------|
| GRAS 12BA, 12BE or 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

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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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