

# GRAS 12AX

4 通道 CCP 电源模块，带增益



Connection: CCP Channels: 4  
Gain: 0, 20, 40 dB

GRAS 12AX CCP (恒流电源) 电源是用于 CCP 传声器套件的  
的低底噪 4 通道电源。

## 简介

The GRAS 12AX is a constant current power module for powering 4 CCP preamplifiers/microphone sets.

It is optimized for integration into a production environment. The anodized enclosure is sturdy and offers good protection against dirt, dust, and moisture.

Except for the power switch, it has no external user controls. In this way unintended change of the gain settings is avoided.

## 设计

As the 12AX is a 4-channel unit, it has 8 BNC connectors, 4 for the input from the microphones and 4 for the output to the analyzer. All connectors are mounted on the rear panel.

It provides 5 mA of constant current at +28 VDC compliance voltage level.

The gain is selectable individually for each channel by means of jumpers. These are accessible by removing a cover at the top plate. The gain can be set to 0, 20 or 40 dB. The chosen gain is indicated by green LEDs on the front panel.

It has error detection at the input and overload detection at the output. The error detection at the input warns against a DC error, typically a short or a broken connection. The overload detection is applied at the output. If the signal exceeds 22 VAC<sup>P-P</sup>, the overload detection will warn about it. DC error and overload are indicated by red LEDs on the front panel, one for each channel.

It has a low noise floor and a wide frequency range: At 0 dB gain, the noise is 1.5  $\mu$ V and the frequency range from 1 to 300 kHz (+1/-3 dB).

It can handle long cables without significant

degradation of the frequency performance.

It operates from 9 - 18 VDC from a mains voltage adapter which is included.

## 保修

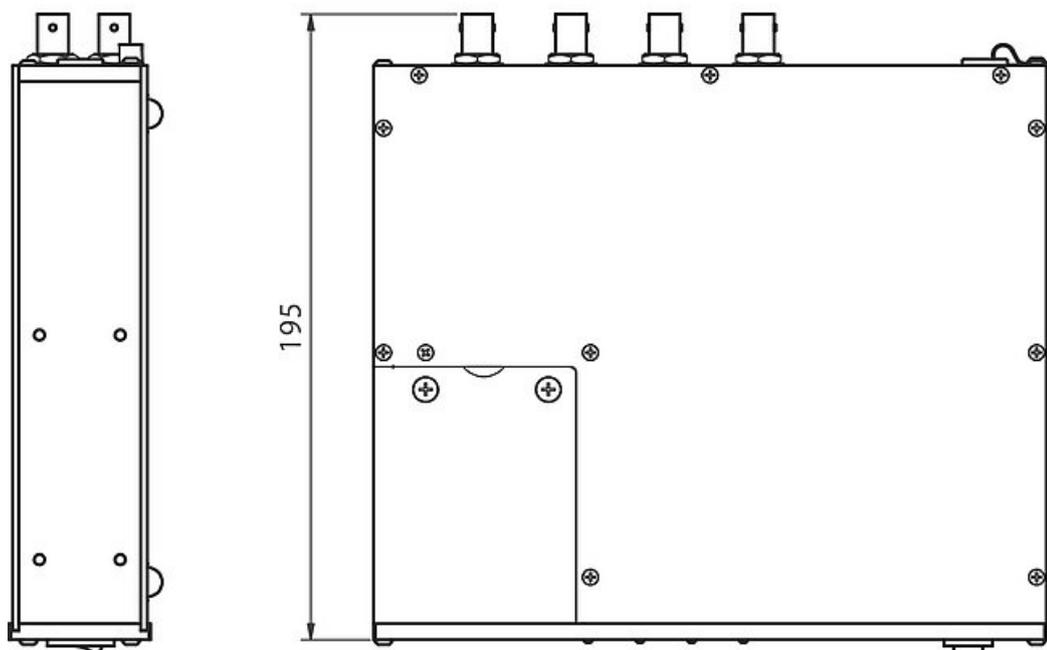
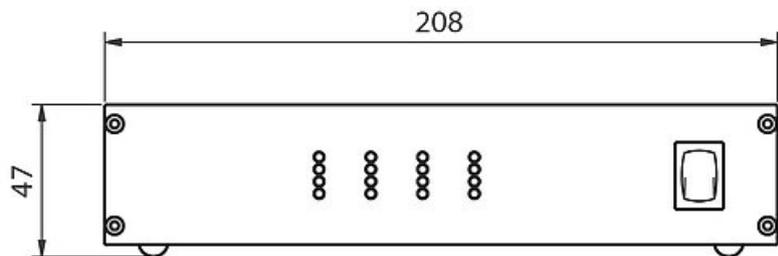
所有GRAS产品均采用优质材料制造，确保产品具有卓越的长期稳定性和耐久性 12AX 提供 2 年保修，但因使用不当导致的损坏不在保修范围内。

## 服务与维修

所有维修均在位于丹麦的 GRAS 国际支持中心进行。我们的支持中心配备了最新的测试设备，并拥有技术精湛的专业工程师。根据要求，我们会按照固定的维修类别进行成本估算。在质保期内的产品送修时，如非人为操作不当或违反保修条款导致的损坏，将享受免费维修服务。

Frequency response (+1,-3 dB) @ Gain = 0 dB	Hz	1 to 300 k
Frequency response (+1,-3 dB) @ Gain = 20 dB	Hz	1 to 200 k
Frequency response (+1,-3 dB) @ Gain = 40 dB	Hz	1 to 70 k
Output channel(s)		4
Output impedance	$\Omega$	75
Direct coupling input to output		No
Inherent noise (20 to 20 kHz) @ Gain = 0 dB	$\mu$ Vrms	1.5
Inherent noise (20 to 20 kHz) @ Gain = 20 dB	$\mu$ Vrms	15
Inherent noise (20 to 20 kHz) @ Gain = 40 dB	$\mu$ Vrms	150
Gain settings, 20 dB steps	dB	0, 20 and 40
Gain error	dB	$\pm$ 0.15 dB
Linear mode		Yes
Type		Constant Current Power (CCP)
Input channel, CCP		4
CCP preamplifier supply @ +28 V	mA	5
Overload indication		Yes
PC controlable		No
External filter option		No
Power amplifier overload detection		No
Power supply, external	Vdc	9 to 18
Battery low indication		No
Temperature range, operation	$^{\circ}$ C / $^{\circ}$ F	-10 to +50 / 14 to 122
Weight	g / oz	1100 / 38.8

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GS0716  
12AX

All dimensions in mm.



## 标配

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标配一个电源适配器:	(根据订单所在国而定)
GRAS AB0002	Power supply 230 VAC to 15 VDC. EU-connector
GRAS AB0006	Power supply 230 VAC to 15 VDC. UK-connector
GRAS AB0003	Power supply 120 VAC to 15 VDC. USA-connector

## 选配

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RA0321	Rack Mounting Kit (for mounting 2 x 12AX side by side)
<a href="#">12AX-S20</a>	12AX Power Module (Excluding Power Supply)

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# 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 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 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](http://www.GRASacoustics.com)

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