



PM 0084 功率放大器
产品规格书

PM 0084 Power Amplifier
Product Specifications

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PM 0084是一款专门针对研发测试设计的调理器，有4通道21V IEPE 激励器，用于调理麦克风，人工耳，加速度计等IEPE 供电传感器，以及4 通道功率放大器，用于驱动 人工嘴，喇叭等大功率负载，持续输出功率达16 瓦。

该产品具有通道资源丰富，IEPE 增益可调、输入阻抗高、输出阻抗低、本底噪声低、频响范围宽、测试重复度高等特点。

基本特点

- 4通道IEPE 恒流源激励器，5K负载以下提供4mA恒流源，最大可接负载10K，提供2mA恒流源
- IEPE 增益2 档可调，x1 ， x10
- 4通道功率放大器， x4
- IEPE 恒流源带信号接入指示灯，方便安装以及故障排查
- 产品使用标准220V 电源供电，方便工业现场使用

产品参数

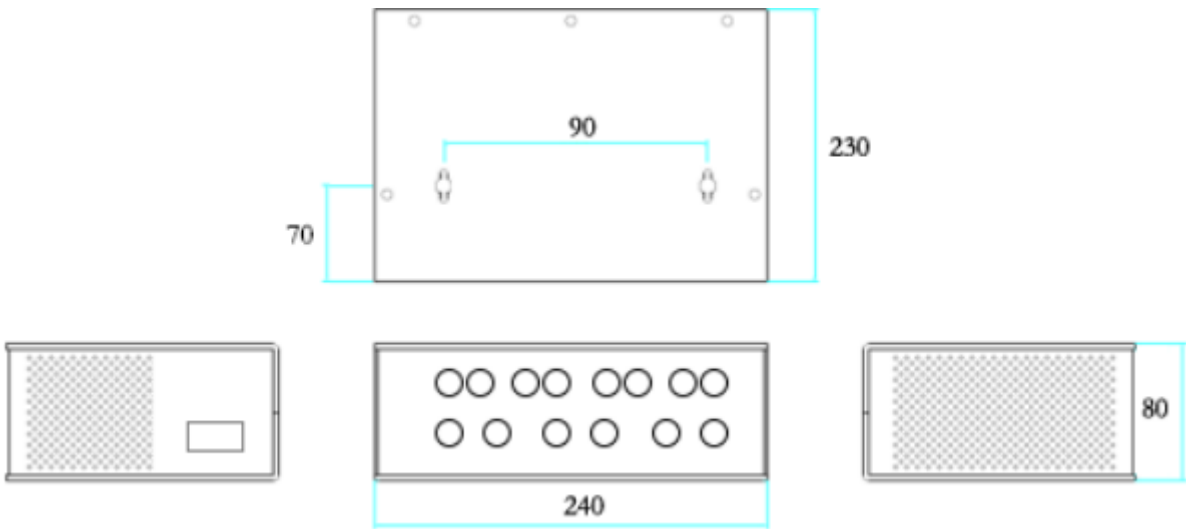
产品参数	
IEPE 通道数	4
功率放大通道数	4
工作电压	220V
产品尺寸(mm)	240*240*76
接口类型	BNC
适用温度	-20°C~50°C

音频特性参数

IEPE 激励源带音频放大器参数	
频响范围	20 - 20kHz, 平坦度优于 0.1dB 5Hz - 80KHz (-3dB)
本底噪声	<-100dBV
IEPE恒流源	4mA恒流源，最大可接负载10K，提供2mA恒流源
放大器增益	0dB(*1); +20dB (*10)
THD @1kHz, input 0.1VP @BW 20-20kHz	0dB增益: <0.0005% +20dB增益:<0.0005%
THD+N @1kHz, input 0.1VP @BW 20-20kHz	0dB增益: <0.01% +20dB增益:<0.05%
指示灯	Mic 信号接入指示

功率放大器参数	
输出功率	单通道 16W
放大倍数	12dB（*4）
频响范围	20 - 20kHz，平坦度优于 0.25dB 6Hz - 80KHz(-3dB)
本底噪声	<-100dBv
THD @1kHz， input 0.1VP @BW 20-20kHz	<0.0005%
THD+N @1kHz， input 0.1VP @BW 20-20kHz	<0.01%

产品尺寸（mm）



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PM 0084 is a conditioner specifically designed for research and development testing applications. It features a 4-channel 21V IEPE exciter for conditioning IEPE-powered sensors such as microphones, artificial ears, and accelerometers, as well as a 4-channel power amplifier capable of driving high-power loads like artificial mouths and loudspeakers, with a continuous output power of up to 16 watts.

This product is characterized by its abundant channel resources, adjustable IEPE gain, high input impedance, low output impedance, minimal background noise, wide frequency response range, and excellent test repeatability.

Basic feature

- 4-channel IEPE constant current source exciter, providing a 4mA constant current source for loads below 5K, with a maximum load of 10K, and offering a 2mA constant current source
- IEPE gain is adjustable in 2 Settings, x1 and x10
- 4-channel power amplifier, x4
- IEPE constant current source is equipped with a signal presence indicator, which facilitates installation and fault diagnosis
- The product is powered by a standard 220V power supply, facilitating its use in industrial settings

Specifications

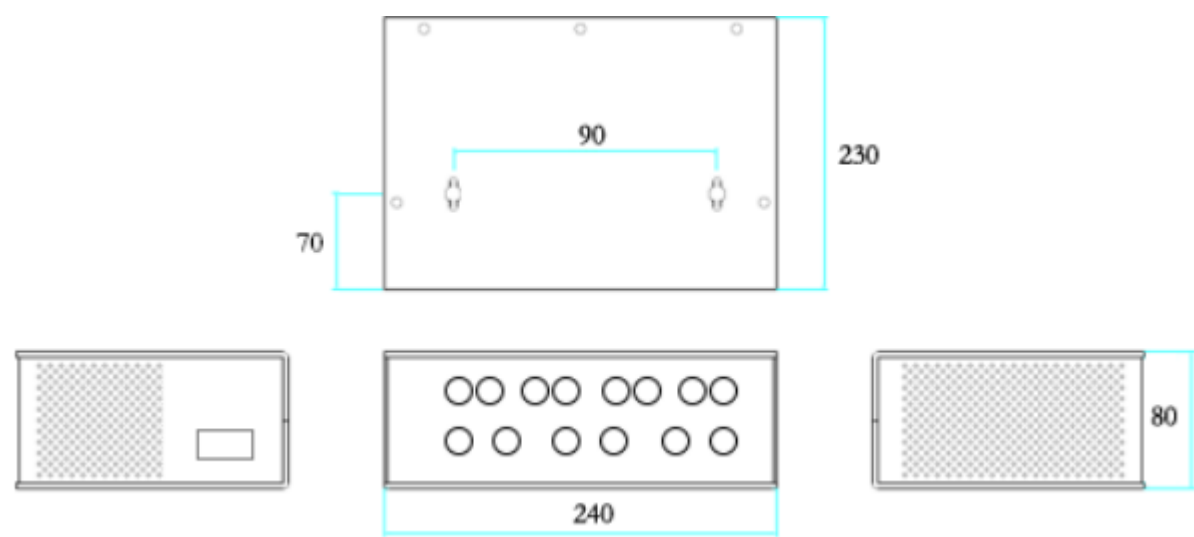
Specifications	
Number of IEPE channels	4
Number of power amplification channels	4
Operating voltage	220V
Product dimensions(mm)	240*240*76
Interface type	BNC
Operating temperature	-20°C~50°C

Audio characteristic parameters

IEPE excitation source with audio amplifier parameters	
Frequency range	20 - 20kHz, flatness better than 0.1dB 5Hz – 80kHz (-3dB)
Noise floor	<-100dBV
IEPE constant current source	4mA constant current source, with a maximum load of 10K, providing a 2mA constant current source
Amplifier gain	0dB(*1); +20dB (*10)
THD @1kHz, input 0.1VP @BW 20-20kHz	0dB gain: <0.0005% +20dB gain:<0.0005%
THD+N @1kHz, input 0.1VP @BW 20-20kHz	0dB gain: <0.01% +20dB gain:<0.05%
Indicator light	Mic signal access indication

Parameters of power amplifier	
Output power	Single channel 16W
Magnification	12dB (*4)
Frequency range	20 - 20kHz, flatness is better than0.25dB 6Hz - 80khz(-3dB)
Noise floor	<-100dBv
THD @1kHz, input 0.1VP @BW 20-20kHz	<0.0005%
THD+N @1kHz, input 0.1VP @BW 20-20kHz	<0.01%

Dimensions (mm)



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