



G.R.A.S. 12HM 10-Channel Power Module for Lownoise Systems

Connection: Traditional 200 V / CCP
 Channel(s): 10
 Signal gain/attenuation: yes/no

The G.R.A.S. Power Module 12HM is a 10-channel power supply for multi-channel lownoise measurements using the matched, low-noise preamplifiers and high-sensitive microphones of a G.R.A.S. low-noise measuring system Type 40HF, 40HH or 40HT.

Technology

The 12HM provides:

- polarization voltage (200 V) for up to 10 condenser microphones
- voltage supplies (± 15 V) for powering up to 10 microphone preamplifiers
- individual response setting, pressure or free field, for each channel
- individual gain adjustment of ± 3 dB for each channel

When connected to the 40HF/40HH/40HT Low-noise Microphone Systems, each channel of the Type 12HM supports the specifications of a G.R.A.S. low-noise measuring system, and can be used in sound-power measurements of low-noise products, such as disk drives, under anechoic or semi-anechoic conditions in accordance with IEC 745:1977.

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 SOUND & VIBRATION

Specifications

CONDITIONING		.
Output channel(s)		10
Output impedance	Ω	0.030
Input channel(s), traditional power supply		10
Channel separation (20 Hz to 20 kHz)	dB	>90
Preamplifier supply	V	+15
Polarization voltage	V	200
Overload indication		Yes
POWER AMPLIFIER		.
Power supply, external ($\pm 10\%$)	Vac	115 to 230
Power consumption	W	35
Fuse 230 V / 115 V	mA	160 / 315
Weight	g / oz	5,500 / 194.01



We make Microphones

Tradition

Since the establishment in 1994, G.R.A.S. have been 100% dedicated to developing and manufacturing high-quality measurement microphones and related acoustic equipment. Founded by the Danish acoustics pioneer Gunnar Rasmussen who for more than 60 years has contributed to the world of sound and vibration with his unique ideas and designs. From the first reproducible 1" condenser measurement microphone that enabled quality measurements and instrumentation for acoustic calibration, Mr. Rasmussen's ingenuity and foresight led to the world's most popular acoustic sensor: The 1/2" measurement microphone. Then the 1/4" and 1/8" microphones followed with outstanding dynamic and high-frequency capability that brought higher definition and transparency into impulse noise diagnostics. Many variants have been made available over the years; all based on Gunnar Rasmussen's original 1" pressure microphone design.

Innovation

At G.R.A.S., we and our customers benefit daily from Mr. Rasmussen's exceptional understanding of acoustics, physics, electronics and measurement needs. Not only in R&D but throughout the organisation, we are proud to develop, produce and offer the broadest range of high-quality measurement microphones and accessories in the industry. And as a family company, now owned and managed by the two sons, Per Rasmussen and Peter Wulf-Andersen, we safeguard our heritage and knowledge to help create new opportunities with our customers. We work with everybody with an interest in sound or noise within the fields of aerospace, automotive, audiology, consumer electronics, noise monitoring, building acoustics and telecommunications, metrology, education, consultancy, legislation and system integration.

Quality

All our microphones are solely produced in stainless steel and in a quality that allows for a 5 year warranty. Should you by mistake damage the diaphragm on a G.R.A.S. microphone, our special technique enables repair at very reasonable price.

Partners

G.R.A.S. is represented worldwide in more than 40 countries by subsidiaries and distributors. Whether you are searching for a multi-channel solution or just a replacement microphone for your sound level meter G.R.A.S. will help solve your needs. Visit gras.dk for your local G.R.A.S. partner.