



OPERATING MANUAL
RANDOM DIGITAL SOUND GENERATOR



MODEL SM-GS-3200

IMPORTANT SAFETY INFORMATION

The information furnished in this manual does not include all of the details of design and engineering of this particular product; nor does it cover every possible application or situation concerning its usage, which may occur during the installation, operation or maintenance of the product.

IMPORTANT - THE PRODUCT REQUIRES CLASS 2 OUTPUT WIRING

TO PREVENT ELECTRIC SHOCK, DO NOT REMOVE TOP OR BOTTOM COVERS. NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED PERSONNEL. DISCONNECT POWER CORD BEFORE REMOVING REAR PANEL COVER TO ACCESS GAIN SWITCH.

TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE!

Safety Instructions

1. Read, follow and retain these instructions.
2. Read all warnings.
3. The apparatus must not be exposed to dripping or splashing and no objects filled with liquids, such as vases, may be placed on the apparatus. Do not use this apparatus near water. Clean only with a damp cloth.
4. The apparatus must be connected to a mains socket outlet with a protective earthing connection.
5. The appliance coupler must remain readily operable for disconnection from the mains.
6. Do not block any of the ventilation openings. Install in accordance with the manufacturer's instructions.
7. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus that produce heat.

8. Do not install the safety purpose of a polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding-type plug has two blades and third grounding plug. The wide blade or the third prong is provided for your safety. When the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.

9. Protect the power cord from being walked on or pinched, particularly at plugs, convenience at plugs, convenience receptacles, and the point where they exit from the apparatus.

10. Only use power cord from attachments/ accessories specified by the manufacturer.

11. Unplug this apparatus during lightning storms or when unused for long periods of time unless there is a surge diverter on that circuit or that protects that circuit.

12. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, or does not operate normally.


Please follow the instructions in this manual to obtain the optimum results from this unit. We also recommend that you keep this manual handy for future reference.

GENERAL DESCRIPTION

The Soundmask SM-GS-3200 is a microcontroller controlled digital random noise generator with an effective frequency range of 20Hz to 20kHz. The digitally generated Gaussian noise is passed through a Spectrum Shaper to flatten its response through the midrange, corresponding to human speech frequencies. The random noise is amplified through a 50W full bridge digital amplifier capable of driving 50 Soundmask speakers. The device's output can also be adjusted to ramp up when the device is switched on for a more acoustically comfortable start up. The generator has an external power supply (refer below).

The SM-GS-3200 is small enough to use virtually anywhere, and can hook in with a variety of different speaker set-ups. It can be connected with all Soundmask transducers.

SPECIFICATIONS

Model	SM-GS-3200
Generator	Microcontroller based digital random noise generator › Blue LCD display › Digital button lock to preserve settings
Amplifier	PWM oscillator is up to 1.0M › 50W x 2 RMS into 6W with Vcc 24V › 50W x 2 RMS into 8W with Vcc 28V › 24-28V Vcc Supply Voltage Operation › Full Bridge (BTL) output Amplifier › Integrated Short Circuit Protection › Integrated Thermal shutdown › Start Up De-pop Circuit › Efficiency up to 90% › Frequency response 20Hz-20kHz
Power	External power in 110 – 240V AC 50/60Hz › Output 24V - 2A
Dimensions & Weight	200 x 165 x 35 mm, 900 g
Compliance	
Safety information	Mount unit in locations that provide unobstructed air movement to minimise the risk of overheating.

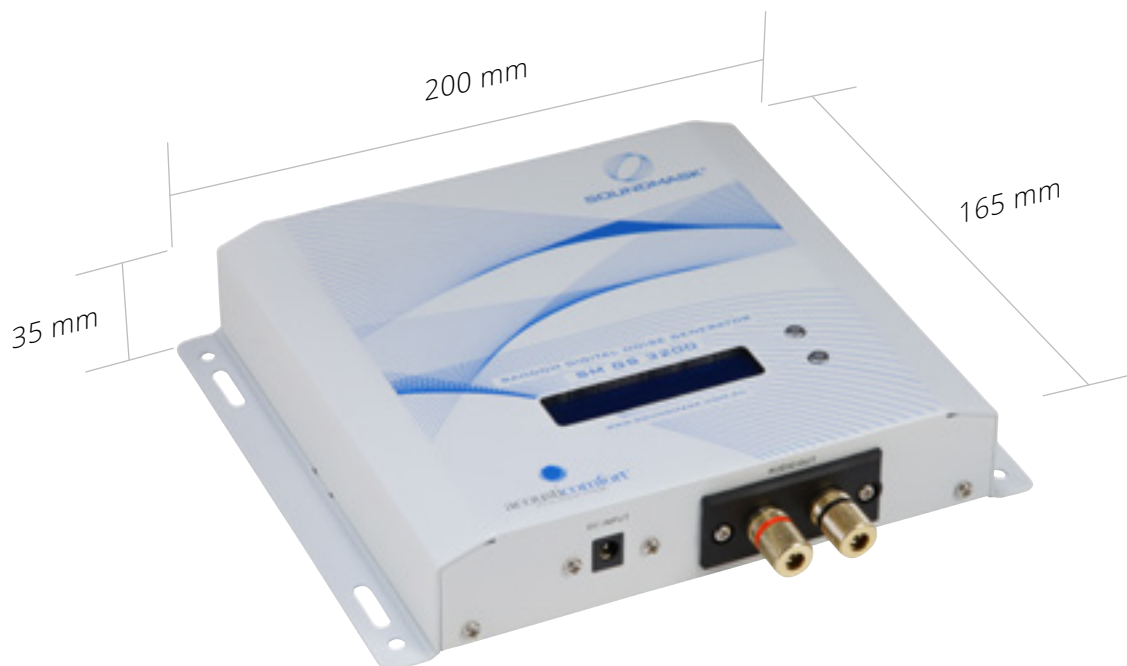
USER INTERFACE

The user interface is controlled by two buttons and the response is displayed by the LCD. Pressing both buttons at the same time for 6 seconds (this delay can be changed in firmware settings) will unlock the device displaying the current volume settings. Once unlocked, the volume can be increased by pushing the button pointing upwards, or decreased by the button pointing downwards.

If the buttons are not pressed for 30 seconds (this delay is also settable in the firmware) then the device will return back to its normal state and display the word "Active". At this point the new volume setting is written back to the EEPROM and will be the default volume.

Note that if the volume is set, and the device is then powered down before it has returned to its normal state, then at the next power up it will revert to the previous volume state, not the one last set.

DIMENSIONAL DIAGRAM



EXAMPLE LAYOUT

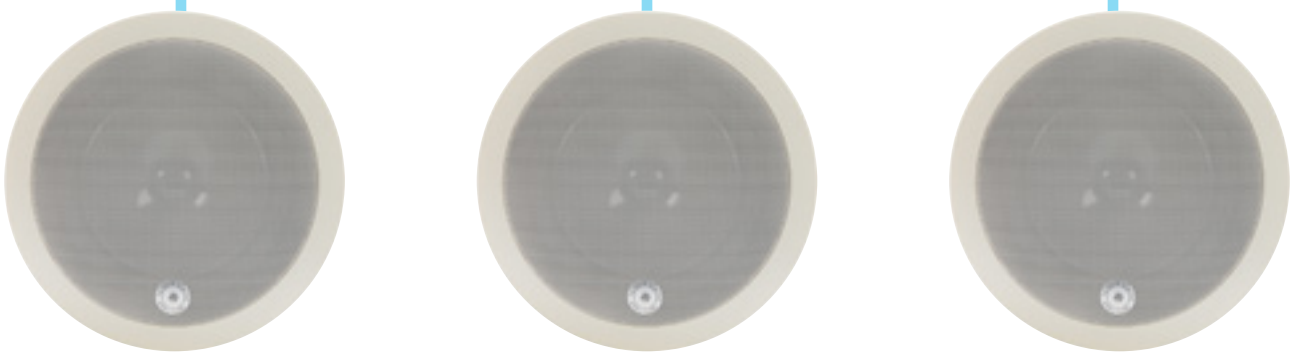
RANDOM DIGITAL NOISE GENERATOR [SM-GS-3200](#)



NOTES

- › Each [SM-TC-1265](#) pictured represents multiple transducers.
- › Diagram not to scale.

TRANSDUCER [SM-TC-1265](#)



TROUBLESHOOTING


If the unit is running slowly or “freezes up”, reset the unit by turning it off using the power switch. Leave the unit to reset for 15 minutes before turning the power switch on again.


For any further problems, contact us via the detail below.

CONTACT


Soundmask Australia Pty Ltd

 www.soundmask.com.au

 1300 734 168 (within Australia)

 +61 3 9879 5355

 megan@soundmask.com.au

 Soundmask Australia Pty Ltd
PO Box 4068
Balwyn VIC 3103
AUSTRALIA

NOTES



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