

Standard Operating Procedure

Title: SOP-016 Signal Generator

PI: Art Erdman **Lab Location:** Mayo G217

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Hazard Identification:

Physical Danger

Exposure Assessment:

Electricity

- Electrical Shock
There is a risk of equipment damage which can occur if a short circuit is created. There is also a small risk of electrical shock. Caution should be taken while signal generator is on.

Control Plan:

- Read and become familiar with machine's operating procedures before operating
- Always know where the power off switch is located in case of emergency
- Machine should always be off when not in use
- Always disconnect the signal generator from the power source before servicing, repairing, or making any adjustments
- Wear protective garments as needed
- Make sure hands are clean when using buttons during operation

Experimental Procedures:

- Put on all safety equipment and tie back loose hair or clothing before operating
- Check to make sure all parts of machine are working and functioning properly
- Turn signal generator off and set up wires, make sure circuit is complete
- When ready, turn on signal generator
- Set signal generator to exact specifications for circuit
- Make sure calculations are correct for circuit to prevent circuit and equipment damage
- When finished testing, turn off signal generator before making any adjustments to circuit
- Disconnect circuit and place all wires and other equipment back in the appropriate place
- Clean workspace.

For other inquiries, see the User Manual in Appendix.

Waste Management Procedures:

When finished with the signal generator, always clean the area. Paper towels and cleaning solution can be found in G217-11. Dispose of debris appropriately.

Place all materials back in the appropriate place.

Spill and Accident Procedures:

If an accident occurs, report immediately to the lab supervisor (G217-05) or other appropriate staff member. If no one is around, dial 911 on the landline phone near the door of G217-11 to reach the campus police. The lab first aid kit is located on the wall near the sink. A first aid pamphlet from DEHS is located in all of the MDC's first aid kits.

Appendix:

[Agilent Waveform Generator.pdf](#)