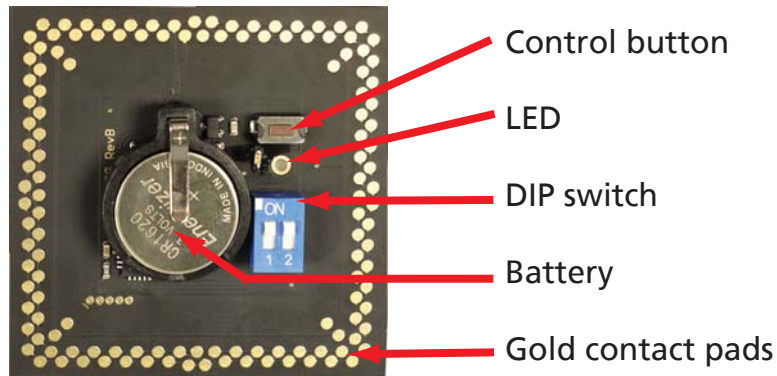


120MEA-SG

120MEA Signal Generator for use with MEA2100-HS120-System



120MEA Signal Generator is a convenient tool for MEA2100-System users. Use the 120MEA-SG instead of setting up an experiment with biological sample for training, controlling, and troubleshooting purposes. This reduces the number of animal experiments and saves laboratory equipment.

Switch on : Press control button. Switch off : Press control button longer than two seconds.



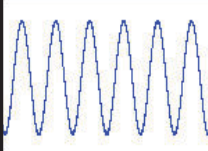
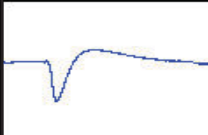
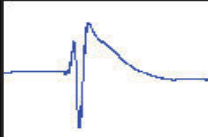
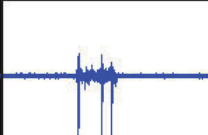
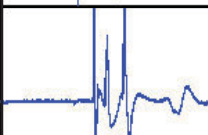
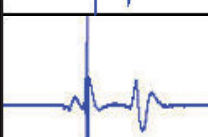
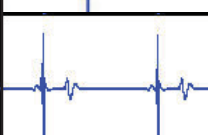
Important : To change DIP switch position, please switch off the device!

Table : DIP switch positions, number of control button presses, and corresponding signals

Switch 1	Switch 2	Control button presses n times	Signal
OFF	OFF	MEA-SG ON	Sinus 0.005 Hz
		1	Sinus 0.01 Hz
		2	Sinus 0.03 Hz
		3	Sinus 1.25 Hz
		4	Sinus 12.5 Hz
ON	OFF	MEA-SG ON	EPSP
		1	Population Spike
OFF	ON	MEA-SG ON	ECG Atrium
		1	ECG Ventricle
		2	Ventricle FP
ON	ON	MEA-SG ON	ERG with Spikes

120MEA-SG

120MEA Signal Generator

Switch 1	Switch 2	press Button n times	Signal Source	Signal Type
OFF	OFF	1 120MEA-SG ON	Artificial Sine Wave (1.75 mV) 0.005 Hz <i>Note: sine waves < 1 Hz might not be visible because of the hardware filter bandwidth.</i>	
		2	Sine Wave 0.01 Hz	
		3	Sine Wave 0.03 Hz	
		4	Sine Wave 1.25 Hz	
		5	Sine Wave 12.5 Hz	
ON	OFF	1 120MEA-SG ON	Hippocampal Slice EPSP	
		1	Hippocampal Slice Population Spike	
		2	Hippocampal Neurons Spikes	
OFF	ON	1 120MEA-SG ON	Heart ECG Atrium	
		1	Heart ECG Ventricle	
		2	Cardiomyocytes Ventricle FP	
ON	ON	1 120MEA-SG ON	Retina ERG with Spike	