

The **Medtronic NIM-Response 2.0** is an Electromyography (EMG) Monitor. The NIM-Response 2.0 is a fourchannel EMG Monitor that can be used for nerve monitoring during surgeries such as ENT and general surgery. The NIM-Response 2.0 can records Electromyographic (EMC) activity and can help the surgeon locate nerves that may be in the area where surgery is needed. The NIM system can provide audible and visual warnings if there are changes to the patient's nervous system. The monitoring system offers various ports to connect a USB or mass storage device the collect the recordings. The Medtronic Electromyographic Monitor has a touchscreen that can display up to four different waveforms and peak-to-peak amplitude. Medtronic offers a variety of different Electromyographic (EMG) devices, another device would be the Medtronic NIM-Response 3.0.

FaathfrasMG monitor that are individually and simultaneously selectable.

- High contrast digital color touch display.
- Increased sensitivity with reduced interference.
- Printable log of patient's EMG activity.
- More sensitive to lower-level EMG activity with improved signal-to-noise ratio.
- Quick setup.



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Specifications

Dimensions	Height: 10.6" (27 cm)
	Width: 12.2" (31 cm)
	Depth: 14.5" (37 cm)
	Weight: 18.7 lbs (8.5 kg)
Display	Type: High contrast, digital, graphic Color, visible in complete darkness.
	Resolution: Display 600H x 800W pixels, Touch Panel 256H x 256W Dedicated Function Event Touch Screen Controls: For Amplitude, Time Display and Capture.
	Vertical Display: 50, 200, 500 and 2,000 µV display modes.
	Event Capture: Enable/disable capture mode indicator on touch screen.
	Time Scale: 50ms or 10s display modes.
Amplifier	Channels - 1 to 4: Individually and simultaneously selectable.
	Input Sensitivities: 5 – 10,000 µV peak-to-peak AC-coupled,
	Sensitivity Selection: Automatically zeroed
	Bandpass: 100 Hz - 2 kHz EMG Display; 200 Hz - 3.2 kHz Audio EMG Speaker
	Input Noise: 5-11 µV p-p < 3 µV RMS @ DC - 4 Hz, inputs shorted
	Input Impedance: > 200 K Ohm ± 10%
	DC Offset Rejection: ± 0.540 V DC Rejection
	Common Mode Rejection: >90 dB @ 60 Hz, balanced inputs, >70 dB @ 60 Hz, 1 K
	Channel Enable/Disable Controls: Dedicated function touchpads for independent channel enable/disable.
	Event Threshold Control and Display: Adjustable Graduated Touch Bar with Voltage threshold displayed.
	Patient Isolation: 1,000 Vrms 60 Hz < 100 µA
Impedance Measurement	Control: Automatic CHECK ELECTRODE feature.
	Measuring Signal: 20 µA peak-to-peak, 60 Hz Square wave.
	Measurement Range: 0-200 K Ohm ± 10%
Artifact Detection and	Stimulus Artifact: Synchronized and adjustable muting.
Rejection	Electrocautery Interference: Automatic detection, muting and warning.
-	Electrode Lead Off: Automatic detection, muting and warning.



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Specifications Continued

Stimulator	Stimulus Type Constant: Constant Current
	Stimulus Range: 0-30 mA, maximum 120 V compliance
	Stimulus Control: Digitally controlled, range – dependent adjustment increments of .01, .05, 1.0 and 5.0 mA.
	Stimulus Output Accuracy: ± .02 mA (or ± 5% of reading at 1K load) over Stimulus Range.
	Stimulus Adjustment: Graduated Touch Screen Control with display of command current and delivered current.
	Stimulus Measurement Accuracy: ± .02 mA (or ± 5% of reading at 1K load) over Stimulus Range.
	Internal Fuse: 32 mA Type F, 250V 5 x 20mm (It must be Xomed # 8250615, other similar fuses may not give the same degree of protection.
Stimulus Characteristics	Waveform: Monophasic, square pulse
	Duration: Software selectable, 50, 100, 150, 200 or 250 µs
	Rise Time: Less than 20 µs
	Rate: Software selectable, 1, 4, 7, or 10 Hz
	Stimulus Probe: Monopolar (standard) or bipolar
I / O - Printer Output / Disk	Printer Interface: Hewlett-Packard: Model: DeskJet 5650 printer.
Drive Output	Connection: Centronics Parallel 36-pin female or USB (2)
Video Output	Interface: VGA Compatible, 800 x 600 resolution
	Connection: 15-pin HD
Electrical	Input Voltage: 100V, 120V, 220V, and 230-240V ± 10%
	Frequency: 50/60 Hz
	Power Consumption: 47 W Nominal, <70 W Peak
	Auxiliary AC output: 250 VA Max.
	Line Isolation: 4000 V Peak-to-Peak 60 Hz dielectric withstand from Line
	Internal Fuse: 5 x 20mm, 4Amp, 250V, Quick-acting, Low breaking capacity, Xomed Part # 11270037. Order 8250614 Fuse Kit for replacements.



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