

COSMAN

RFG-1B Lesion Generator



**Sterile
Adapted
RFG-1B-S**

The Cosman RFG-1B Radiofrequency Lesion Generator System

The RFG-1B embodies 53 years of Cosman radiofrequency (RF) generator technology and is the most modern, reliable and functional unit ever built. Bernard J. Cosman who founded Radionics (formerly called Cosman and Company) in 1938 built the first commercial RF lesion generator in 1952. His son, Professor Eric R. Cosman of the M.I.T. Physics Department, directed Radionics from 1970 to 2000 and created dozens of RFG models including RFG-3C Plus, 3CF, 3C, 3B, 3D, 5, 5S, 6, 6S, etc. which are used today by thousands of clinicians around the world. Radionics, the family business, was sold in 2000.

Cosman Medical, Inc. has been founded by Professor Cosman to continue innovation in the RF technology which he and his father pioneered. He and his team of expert technical personnel have created the RFG-1B RF Lesion Generator and associated electrodes specifically for pain therapy.

The RFG-1B incorporates the most modern and advanced electronic design, making it more functional, reliable, and safe. It has all the functions to perform

any RF pain procedure and features a simplified and easy-to-understand front panel. The Impedance, Stimulator, RF Output, Timer, and Temperature controls are located logically from left-to-right on the front panel with large color-coded digital displays. Its wide range of parameters, simple automatic over-temperature controls and timer settings, and continuous and pulsed RF modes make it universal. It is also compatible with Radionics electrodes.

The RFG-1B is convenient and economical. It is compact, light-weight, and portable. The Output Test Plug and the Sterilizable Test Pad enable checking the generator outputs, electrodes, and cables. Options include: a fully sterile adaption (footswitch and sterile-removable knob); a carrying and tilt handle, a protective face cover, and output jacks on its rear panel enabling graphics of real-time outputs on a PC computer. The RFG-1B's modern design means better technology for less production costs, and Cosman is passing-on the savings by offering a lower price to the customer.

Technical Specifications

ELECTRICAL SUPPLY

Domestic: 100Vac, 120 Vac
International: 220Vac, 240 Vac

IMPEDANCE MONITOR

Range: 0 – 3000 ohms digital
Resolution: 1 ohm between 0 – 999,
10 ohms between 1000-3000

STIMULATOR

Pulse Rate: 2, 50 Hz (PPS)
Pulse Duration: 1 mS
Output Amplitude: 0 – 3 Volts

RF LESION GENERATOR:

Continuous RF Mode

Voltage: 0 – 70 Volts (rms)
Current: 0 – 750 mA
Power: 0 – 50 Watts

Pulsed RF Mode

Voltage: 0 – 100 Volts (peak)
Pulsed Rate: 1, 2, 3, 4, 5, 6, 7, 8 Hz (PPS)
Burst Duration: 10, 20, 30 mS

TIMER

Selectable: 30, 60, 90, 120, 180, 600 sec

TEMPERATURE MONITOR

Range: 0 – 110 °C
Resolution: 1 °C

AUTOMATIC OVER-TEMPERATURE CONTROL

Select: ON or OFF
Settings in ON mode: 60, 65, 70, 75, 80, 85, 90 °C

OUTPUT PORTS (optional)

RF Volts: 0 – 100 Volts = 0 – 1 Vdc
RF Current: 0 – 750 mA = 0 – 1 Vdc
RF Watts: 0 – 50 watts = 0 – 1 Vdc
Impedance: 0 – 3000 ohms = 0 – 1 Vdc
Temperature: 0 – 100 °C = 0 – 1 Vdc

GENERAL

Size: W 14" (35.5 cm), H 6" (15.3 cm), D 10.5" (26.7 cm)
Weight: 17 lbs (7.7 kg)

Catalog No.	Description
RFG-1B	RF Lesion Generator
CB112-TC	Cable for TC Electrodes
CB120	Single Ended Chart Recorder Cables (5)
CB103-R	Cable, Red, with Alligator Clip
CB103-B	Reference Cable, Black, with Alligator Clip
CB102	Reference Connection Cable

Catalog No	Description
RFG-FC-1	Generator Face Cover
RFG-TP	Output Test Plug
RFG-STP	Sterilizable Electrode Test Pad
FS-1	Footswitch
SKG	Sterilizable Knob (Gold)
HAN	Carrying Handle for Generator
DGP-PM	Disposable Ground Pad

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