

# Nicolet™ Cortical Stimulator

## Specifications

### Features

- Delivers bi-phasic, constant current trains of stimulation pulses
- Stand alone unit or seamlessly integrates with NicOne EEG application software
- Stimulates “user selectable” electrode pairs or bipolar probe
- Two Stimulus Switching Units may be used to electronically select 128 electrodes, 64 electrode pairs
- Convenient small size facilitates handheld use
- Train durations can be terminated by “Stop” button
- Countdown of remaining stim time
- User configurable pulse frequency, pulse duration and current level
- Single Stimulus Pulse and Continuous mode available
- Active Stimulation indicator light
- Actual current delivered displayed
- Trigger Out permits synchronizing external equipment
- Check Stim feature measures and verifies current delivery
- Channel Mark feature allows confirmation of stimulated electrodes directly on the EEG Acquisition Waveforms
- Ictal Disrupt generates single pulse at previous parameters allowing management of after discharges and seizure propagation
- Graphical user interface provides unprecedented ease of use
- Automated Report provides visual documentation and audit of stimulations and responses
- Languages: English, French, Italian, German, Spanish, Russian, Chinese, Japanese and Portuguese (Nicolet EEG software) English, French, Italian, German, Spanish, (Control Unit LCD)
- Patient safety assured by continuous error detection monitoring
- Patent pending

### General Specifications

- Current Output** Up to 15 mA of isolated current into a 1.0 KΩ load
- Stimulus Levels** User specified, adjustable in 0.1 mA increments: 0, 1-15 mA (+/- 20%)
- Train Durations** User specified 0.1-30 seconds (+/- 20%)  
Available train durations: Single, 0.1, 0.2, 0.5, 1, 2, 3, 4, 5, 6, 7, 10, 12, 15, 17, 20, 25, 30 seconds (.1 second increments in NicOne software)  
Continuous available (probe biphasic mode)
- Pulse Frequencies** User specified 1-100 Hz (+/- 10%)  
Available pulse frequencies: 1, 2, 5, 10, 20, 30, 40, 50, 60, 100 Hz seconds  
(.1 Hz increments in Nicolet EEG software)  
Single stimulation pulses are also available
- Pulse Duration** User specified 100-1000 µsecs (+/- 10%)  
Available pulse durations: 100, 150, 200, 250, 300, 400, 500 and 1000 µsec/phase (10µS increments in NicOne software)
- Control Unit Weight** Less than 1kg
- Dimensions**  
Control Unit: 230 mm (L) x 130 mm (W) 60 mm (H)
- Power Requirements** 15V @ 3A
- Environmental Considerations (Operating)**  
Temperature: +5 to +40° C, (+41 to +104° F)  
Relative Humidity: 25 - 95%, non-condensing  
Atmospheric Pressure: 700 hPa to 1060 hPa
- Non-Operating Environment (in storage)**  
Temperature: -20 to +65° C, (+4 to +149° F)  
Relative Humidity: 10 - 95%  
Atmospheric Pressure: 500 hPa to 1060 hPa

Specifications, design options and terms quoted are subject to change without notice. Advanced Technology Patent Pending



### Quality System

Manufactured, designed, developed and marketed under ISO 13485 certified quality system

### Compliance Standards (Control Unit and Probe)

Designed, tested and manufactured to meet the following domestic (USA), Canadian, European and International Standards:

**UL 60601-1** Medical Electrical Safety Standard (USA)

**CAN/CSA-C22.2 no. 601.1-M90**

Medical Electrical Safety Standard (Canada)

**EN/IEC 60601-1**

Medical Electrical Safety of Medical Equipment (International and Europe)

**IEC 60601-2-26**

Particular safety of electroencephalographs equipment

**EN 60601-1-2** Collateral safety standard for EMC

**European Community (CE Mark)**

Class 2B Medical Device Directive (MDD) product

**Complies with applicable Food and Drug Administrative (FDA) regulatory requirements**

**Patient Isolation BF**

# Nicolet™

© 2012 Natus Medical Incorporated. All Rights Reserved. All product names appearing on this document are trademarks or registered trademarks owned, licensed to, promoted or distributed by Natus Medical Incorporated, its subsidiaries or affiliates. Lit. No. 169-437700 Rev 03 (2012/06)

Natus Medical Incorporated  
1501 Industrial Rd  
San Carlos, CA 94070 USA  
1-650-802-0400  
US Nicolet Sales & Support:  
Tel: 1-800-303-0306

Natus – Nicolet brand products  
1850 Deming Way  
Middleton, WI 53562 USA  
Tel: 1-800-356-0007  
1-608-829-8500  
Fax: 1-608-829-8709

[www.natus.com](http://www.natus.com)

**natus**  
neurology