



STIMPOD NMS 450

Multiple functionality – Peripheral Nerve Block Mapping / Location and NMBA Monitoring

AT A GLANCE

- three dimensional accelerometer: quick and easy setup, no calibration
- TOF, DB, PTC, TWI and TET stimulation patterns
- real-time feedback
- repeat timer: enables continuous objective monitoring
- auto sensing cable to combine nerve mapping and nerve locating for quick and precise nerve location
- modern, clearly laid out user interface
- reduces procedural time
- enables early detection of faulty or incomplete connections
- objective control of the blocking agent
- accelerated recovery of neuromuscular functions

OPTIMAL RELAXATION AND QUICK RECOVERY

Next to peripheral nerve mapping/location this unique nerve stimulator is used particularly after application of muscle relaxants to the patient. Based on the relative strength of contraction which is the result of a stimulus of specific intensity or waveform, it is possible to draw conclusions about the efficacy of an injected Neuro-muscular Blocking Agent. Objective control of the blocking agent will not only ensure optimal relaxation but will also accelerate recovery of the neuromuscular functions.

CAREFREE MONITORING

The Stimpod NMS450 features a revolutionary three-dimensional accelerometer, ensuring carefree monitoring of the patient without the need to calibrate the unit and continuously adjust the position of the accelerometer. Exact real-time feed-back is provided for all stimulation patterns necessary for NMBA monitoring: TOF (Train of Four) Ratios and Counts, DB (Double Burst) Ratios and PTC (Post Tetanic Counts), TWI (Single Twitch) and TET (Tetanus). The relative contraction strength caused by each stimulus

is indicated graphically in the diagnostic screen. In TOF mode the percentage of the measured contraction strength of the fourth contraction compared to the first contraction will be displayed.

PATIENT SAFETY

The NMS 450 also offers the unique nerve mapping/locating functionalities enabling the anaesthetist to easily map out nerves percutaneously prior to locating the nerve with the needle through which local anaesthetics can be injected. The unit auto senses which modality is used and automatically switches the current between the nerve mapping probe and the stimulating needle.

OPERATING MODES

| NMBA MODE: NMS 450 | |
|------------------------------|---|
| Current Range | 0 – 80 mA ± 5% |
| Pulse Width Options | 0.02 ms ± 5% |
| Stimulus | Monophasic square wave |
| Stimulating Frequency | 1 Hz, 2 Hz, 5 Hz, 50 Hz, 100 Hz ± 5% |
| NERVE LOCATING MODE: NMS 450 | |
| Current Range | 0.00 – 5.00 mA ± 5% |
| Pulse Width Options | 0.05ms, 0.1 ms, 0.3 ms, 0.5 ms, 1 ms ± 5% |
| Stimulus | Monophasic square wave |
| Stimulating Frequency | 1 Hz, 2 Hz, 5 Hz ± 5% |
| NERVE MAPPING MODE: NMS 450 | |
| Current Range | 0 – 20 mA ± 5% |
| Pulse Width Options | 0.05ms, 0.1 ms, 0.3 ms, 0.5 ms, 1 ms ± 5% |
| Stimulus | Monophasic square wave |
| Stimulating Frequency | 1 Hz, 2 Hz, 5 Hz ± 5% |



ORDERING INFORMATION

STIMPOD NMS 450 STIMULATOR

| REF. | PRODUCT DESCRIPTION | QTY |
|----------|--|-----|
| XT-45000 | NMS 450 peripheral nerve stimulator only (no cables or other accessories) | 1 |
| XT-45001 | NMS 450 peripheral nerve stimulator set (including combined mapping and locating cable, nerve locating cable, NMBA monitoring cable with accelerometer and carry case) | 1 |
| XT-41002 | polypropylene carry case | 1 |
| XT-41003 | nerve locating cable | 1 |
| XT-41004 | combined nerve mapping/locating cable | 1 |
| XT-45005 | NMBA monitoring cable with accelerometer | 1 |

NMS 450 SET

Stimpod NMS 450 Stimulator includes case, stimulator, combined mapping / locating cable, NMBA monitoring cable with accelerometer and locating cable (no batteries).



- ① nerve locating cable
- ② combined mapping and locating cable
- ③ NMBA monitoring cable with accelerometer

MANUFACTURED BY:
XAVANT TECHNOLOGY
169 Garstfontein Road, Ashlea Gardens
0081, Pretoria, South Africa



DISTRIBUTED BY:

TELEFLEX MEDICAL HEADQUARTER EMEA, IRELAND · IDA Business & Technology Park · Athlone · Co Westmeath
Tel. +353 (0)9 06 46 08 00 · Fax +353 (0)14 37 07 73 · orders.intl@teleflex.com

UNITED KINGDOM Tel. +44 (0)14 94 53 27 61 · info.uk@teleflex.com

WWW.TELEFLEX.COM

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