

Neuromuscular Transmission Module, E-NMT

For integrated measurement of the level of neuromuscular block



The neuromuscular transmission module, E-NMT, integrates the measurement of the level of neuromuscular block into a single-width, plug-in module. The module complies with IEC 60601-1 3rd edition.

Features

- Provides a quantitative, automatic measurement of muscle response to an electrical stimulus
- Offers all common stimulation modes: train of four (TOF), single twitch (ST), double burst stimulation (DBS) and tetanic stimulation
- Covers the whole range of neuromuscular blockade
- Provides two measurement sensor options: the easy-to-apply MechanoSensor (KMG) for routine clinical use, and ElectroSensor (EMG) for research use
- Offers two MechanoSensor options: for adults and for pediatric patients
- Provides automatic setting of supramaximal current
- Provides automatic measurement at user-selectable interval
- Recovery Note can be set to notify when the block is wearing off
- Recall function enables moving the module with the patient without losing the reference values and the measured supramaximal current
- In addition to the integrated neuromuscular block measurement, the module enables nerve location for regional block by utilizing a comfortable 40 μ s pulse

Technical specifications

Direct function keys

Start-up Automatically initiates the measurement by setting supramaximal current, reference value and starting cycle

Stop/Continue Stops / continues measurement with same patient

NMT

Stimulation modes Train of four (TOF)
Double burst (3,3), (DBS)
Single twitch (ST)
50 Hz tetanic (post tetanic count)

Numeric display TOF%/DBS%, Count, T1%, PTC

Measurement intervals for TOF/DBS

CARESCAPE™ modular monitors with OR and PACU software packages: Manual, 10 s, 12 s, 15 s, 20 s, 1 min, 5 min or 15 min.

CARESCAPE modular monitors with ICU and ED software packages: Manual, 20 s, 1 min, 5 min, 15 min, 30 min, 60 min or 120 min.

Measurement intervals for ST

Manual, 1 s, 10 s, 20 s

Stimulus pulse Square wave, constant current

Pulse width 100, 200 or 300 μ s

Stimulus current range Supramax: 1 to 70 mA
Manual: 1 to 70 mA, in 1 mA steps

Stimulus current accuracy 20% or ± 3 mA, whichever is greater

Load for 70mA 3 k Ω (max)

Voltage 300 V (max)

Regional Block mode

Stimulation mode Single twitch

Stimulation intervals 1, 2, 3 s

Stimulus pulse Square wave, constant current

Pulse width 40 μ s

Stimulus current range 0 to 5.0 mA with 0.1 mA steps

Stimulus current accuracy 20% or ± 0.3 mA, whichever is greater

Monitor compatibility

CARESCAPE modular monitors with OR, PACU, ED and/or ICU software

Environmental specifications

Operating conditions

Temperature 10 to 40°C (50 to 104°F)

Relative humidity 10 to 90% non-condensing

Storage conditions

Temperature -20 to 60°C (-4 to 140°F)

Relative humidity 10 to 90% non-condensing

Physical specifications

Dimensions (H x W x D) 11.2 x 3.7 x 18.6 cm
(4.4 x 1.5 x 7.3 in)

Weight 0.35 kg (0.77 lb)



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