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Operating room

Product Information

History of Product

Fisher & Paykel's involvement with peripheral nerve stimulators (PNS) started with the A200 PNS. This model was soon upgraded to the A400. The A400 was released into the market in 1985/86.

Since then the product has been re-designed and features microprocessor control with the release of the NS242 and NS252 in February of 1989.

The NS272 Nerve Stimulator and Locator was launched in August 1995, which allowed the Anesthetist to have an external and internal mode in one model.

July 2001 saw the launch of the NS232 Nerve Locator which has just the internal mode, also including our programming mode.

Product Features

The constant current NS232, NS252, NS272 PNS are the only known PNS that can be programmed. The NS242 is also a constant current PNS and offers all the conventional stimulation patterns. All units are hand-held; battery operated and includes automatically repeating stimulation patterns.



INNervATOR232

The **NEW** Innervator NS232 is a basic **Peripheral Nerve Locator** only which offers programmable twitch stimulation patterns for nerve location during regional anesthesia. Ideal for day surgery and the emergency room

The NS232 has an output range of 0-10mA (0-2mA in 0.2mA steps, 2-5mA in 0.5mA steps, 5-10mA in 1mA steps) and is designed for Internal Mode Only.



INNervATOR242

The NS242 is a base level constant current **Conventional Peripheral Nerve Stimulator Only**. It uses conventional stimulation patterns only to monitor neuromuscular blocks i.e. Single Twitch, Train of Four and Tetanus.

The NS242 has an output range of 0 -80mA in

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10mA steps and is designed for External Mode Only.



INNERTOR252

Is a fully featured programmable peripheral nerve stimulator offering just not the conventional stimulation patterns i.e.

Single Twitch - on demand or 1 or 10 second repeat

Train of Four - on demand or 12 second repeats

Tetanus - on demand at 50Hz or 100Hz

but also has available

Post Tetanic Count - for monitoring during sleep relaxation

Double Burst Stimulation - select 3:3 or 3:2 pattern for assessing residual blocking agent.

The NS252 has an output range of 0 -160mA in 10mA steps and is designed for External Mode Only



INNERTOR272

The NS272 is a fully featured Peripheral Nerve Stimulator and Locator. The NS272 is used to monitor neuromuscular blocks during surgery or intensive care procedures, or for nerve location during regional anesthesia.

The fully featured peripheral nerve stimulator offers not only the conventional stimulation patterns but also the stimulation patterns.

Features for Peripheral Nerve Stimulator Mode - (External Mode)

Single Twitch - on demand or 1 second repeat

Train of Four - on demand or 12 second repeats

Tetanus - on demand at 50Hz or 100Hz

Post Tetanic Count - for monitoring during sleep relaxation

Double Burst Stimulation - select 3:3 or 3:2 pattern for assessing residual blocking agent.

Features for Peripheral Nerve Locator Mode - (Internal Mode)

Offers programmable twitch stimulation patterns for nerve location during regional anesthesia. Ideal for day surgery and the emergency room.

The NS272 has an External Mode output range of 0 -160mA in 10mA steps and an Internal Mode output range of 0-10mA (0-2mA in 0.2mA steps, 2-5mA in 0.5mA steps, 5-10mA in 1mA steps).

Feature Comparison Chart

	NS232	NS242	NS252	NS272
Peripheral Nerve Locator	•			•
Peripheral Nerve Stimulator		•	•	•
Constant current feature allows delivery of comparable stimuli throughout the whole operation, despite changes in impedance, e.g. drying out of electrodes or patient perspiration	•	•	•	•
Available Patterns:				
Single Twitch	•	•	•	•
Train of Four		•	•	•
Tetanus		•	•	•
Post Tetanic Count			•	•
Double Burst Stimulation			•	•
Programming Mode	•		•	•
LCD display showing set output current	•	•	•	•
Audible and Visual indicators for pulse delivery and 'errors'	•	•	•	•

Low battery indicator	•	•	•	•
Pulse Mute Option	•	•	•	•
Automatic Power Shutdown	•	•	•	•
Internal Mode	•			•
External Mode		•	•	•



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