

Stimuplex® HNS 12 with SENSE

To achieve the most reliable nerve stimulation



Regional Anesthesia

Test Winner!* Stimuplex® HNS 12 – by far the b

Stimuplex® HNS 12 with SENSE

The large full graphic LC-display gives you all necessary information at a glance. High contrast and a wide viewing angle ensure excellent readability.

The following information is permanently displayed:

- Stimulus amplitude in mA (large digits)
- Stimulus duration in ms
- Stimulus frequency in Hz
- Load impedance in $k\Omega$
- Charge delivered (in nC, if activated)

User benefits

- Now with SENSE technology for safer, easier, and more efficient nerve stimulation**
- Advanced ergonomic shape and large display
- Digital ratchet dial for precise and tactile current adjustment
- Quick access buttons allow direct switching of key parameter values during procedure
- Alarm screens and acoustic signals inform the user of any relevant deviations



* An objective assessment of nerve stimulators for peripheral nerve blockage. D. Jochum et al., Anaesthesia, 2006, 61, pages 557-564.

** Use of sequential electrical nerve stimuli (SENS) for location of the sciatic nerve and lumbar plexus, Urmey et al., Regional Anesthesia and Pain Medicine, 2006, 31, pages 463-469.

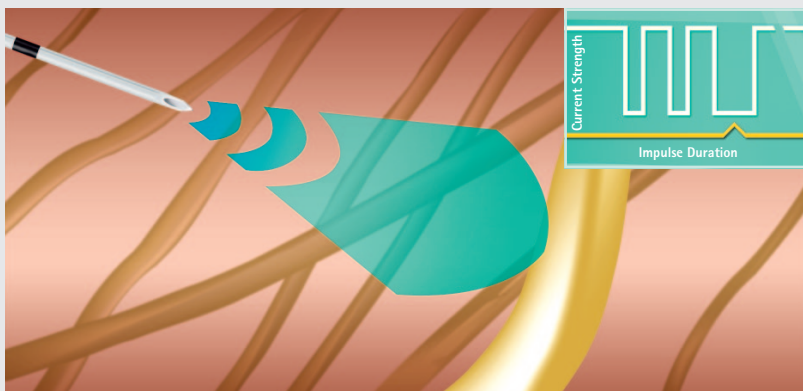
Best nerve stimulator.

What is SENSE?

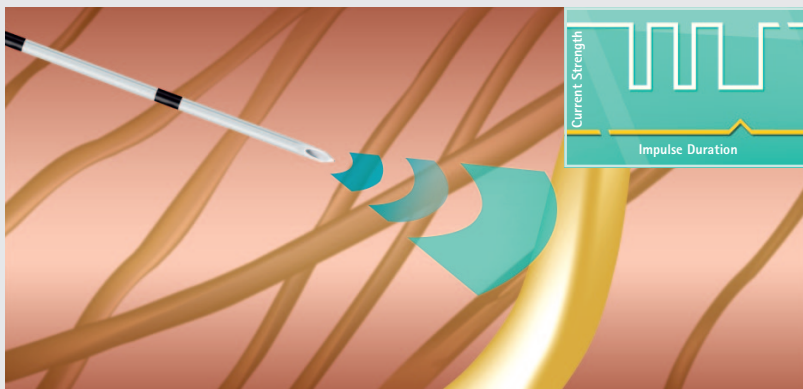
Easier with SENSE

SENSe is a further development on the Stimuplex® HNS 12 offering more patient safety and improved clinical efficiency. In practice, marginal needle movements often lead to losing the muscle twitch. The SENSE technology (Sequential Electrical Nerve Stimulation) is a sequence of two fixed impulse durations

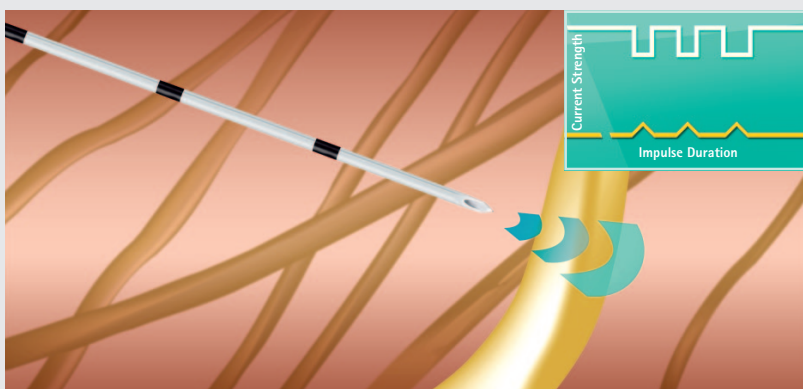
of 0.1 ms along with a third longer impulse duration. This results in getting the first muscle twitch already at a distance from the nerve and requires less adjustments to the amperage control, while maintaining the visual feedback.



From the alternating sequence of three impulses, the third longer impulse stimulates the nerve already at a distance. One muscle twitch is visible and indicates that the needle is directed at the nerve.



The stimulation needle is further advanced toward the nerve while SENSE maintains the motor response. Current strength adjustments lead to definite reductions of the third impulse.



At the threshold level of approximately 0.3 mA, not one but three muscle twitches are visible as all three impulses elicit a motor response, thus SENSE allows easier and more reliable nerve localization for better blocks. If the muscle twitch has been lost, the third longer impulse helps to easily find it again.

Accessories complement high performance



Stimuplex® HNS12 set
The Stimuplex® HNS12 suitcase allows safe and tidy storage for the nerve stimulator and all accessories.

Product	Sales unit/ pcs.	Code No. (REF)
Stimuplex® HNS 12 with electrode cable for all B. Braun needles	1	4892098
Stimuplex® Pen device for percutaneous nerve mapping	1	4892099
Stimuplex® Remote Control for sterile one-hand operation	1	4892216B
Electrode cable for Stimuplex® HNS 11/12, length 125 cm	1	4892070
Battery cover for Stimuplex® HNS12	1	4892094
Suitcase for Stimuplex® HNS12	1	4892095
Test resistance for Stimuplex® HNS12	1	4892096
Knob for sterile handling	1	4892283
Fingerrings for Stimuplex® Remote Control RC	1	4892224B
Stimuplex® Switch	1	4892090



Well-balanced range of stimulation needles

To achieve the best stimulation and most effective blockade we recommend the use of Stimuplex® HNS 12 with our well-proven range of stimulation needles (Stimuplex® D and Stimuplex® A) and catheter sets (Contiplex® Tuohy, Contiplex® D, Contiplex® S).

All B. Braun needles are compatible with all B. Braun Stimuplex® nerve stimulators.

Stimuplex® Remote Control

Previously available with our successful Stimuplex® Dig RC nerve stimulator, the Stimuplex® HNS 12 can also be used with remote control that allows sterile one-handed operation.



Stimuplex® Pen

The Stimuplex® Pen for percutaneous nerve mapping. It helps pre-assess the puncture site. Also suitable for educational and training sessions.



PNB equipment by B. Braun ... achieve more.