



# NERVE MONITORING KITS

Research shows the use of dedicated nerve monitoring solutions improves surgical precision, optimizes lead placement, and enhances overall therapeutic outcomes.

Neurosign Nerve Monitoring Kits are specifically designed to support functional nerve mapping in real time—enabling surgeons to accurately identify target nerve branches, confirm appropriate stimulation patterns, and reduce procedural variability.

Surgical precision is particularly critical for intra-cranial procedures, such as hypoglossal nerve stimulation (HNS) surgery, where accurate identification of the correct nerve branches directly determines the treatment success in severe sleep apnea cases.

For patients with moderate to severe obstructive sleep apnea who cannot tolerate continuous positive airway pressure (CPAP) therapy—where adherence rates range from 40% to 60%—HNS offers a clinically validated alternative with sustained benefits observed through five years.

The hypoglossal nerve controls tongue movement, and selective activation of protrusor muscles is essential to maintain upper airway patency during sleep. By integrating advanced nerve monitoring kits into hypoglossal nerve stimulator implantation procedures, surgical teams can improve anatomical targeting, increase consistency of outcomes, and help maximize long-term clinical success for patients living with obstructive sleep apnea.

We provide two nerve stimulation kits, each tailored to support the complexities commonly encountered difficulties during nerve mapping and support preferred surgical technique.

# WHY CHOOSE THIS KIT?

- ✓ **DESIGNED FOR EMG RECORDING IN INTRAOPERATIVE MONITORING APPLICATIONS.**
- ✓ **MANUFACTURED FROM MEDICAL-GRADE STAINLESS STEEL, DESIGNED FOR USE IN MEDICAL APPLICATIONS.**
- ✓ **NEEDLE DESIGNS INTENDED TO SUPPORT CONTROLLED INSERTION AND MINIMIZE TISSUE DISRUPTION.**
- ✓ **NEEDLE GEOMETRY DESIGNED TO SUPPORT STABILITY DURING INSERTION AND POSITIONING.**
- ✓ **SUITABLE FOR USE IN ROUTINE AND ADVANCED NERVE STIMULATION PROCEDURES.**
- ✓ **COMPONENTS AND ACCESSORIES DESIGNED TO SUPPORT SURGICAL VISUALIZATION AND MANEUVERABILITY.**

## KIT 1

### TWISTED PAIR ELECTRODES

High-fidelity EMG recording to distinguish activation of the nerve branches, with a twisted lead design that helps reduce electromagnetic noise typical of the operating room environment.

**PN 1699-00-TE** | 20 mm x 0.3 mm  
needle electrodes.  
1 m twisted wire. 2 pcs



### SINGLE NEEDLE ELECTRODE

Subdermal needle designed to be used as a reliable and stable reference/ground to support consistent intraoperative signal quality.

**PN 1705-00-TE** | 20 mm x 0.3 mm  
needle electrode  
1 m wire. 1 pc



### BIPOLAR PROBE

Slim 1 mm inter-shaft spacing optimized for selective mapping of nerve branches, combined with an ergonomic handle to maintain surgeon comfort during extended mapping procedures.

**PN 3601-00-TE** | 100 mm shaft  
length, 0.75 mm diameter,  
2 mm exposed tip, 1mm tip  
separation. 1 pc



## KIT 2

### COLOR-CODED HUBBED NEEDLES

Blue and red hubs designed to provide instant visual differentiation of two target muscles during nerve mapping, while high-quality EMG signals support precise identification. The 1.5 m twisted lead wires are designed to help reduce electromagnetic interference in the operating room, enhancing intraoperative signal clarity.

**TFDN014518/Y** | hubbed blue pair,  
18mm x 0.45mm, 1.5m twisted

**TFDN014518/W** | hubbed red pair,  
18mm x 0.45mm, 1.5m twisted



### SINGLE NEEDLE ELECTRODE

Subdermal needle designed to be used as a reliable reference/ground to support consistent intraoperative signal quality.

**PN 1705-00-TE** | 20 mm x 0.3 mm  
needle electrode  
1 m wire. 1 pc



### BIPOLAR PROBE

The Bipolar Probe has tips separated by 1 mm designed to stimulating through tissue and bone.

**PN 3601-00-TE** | 100 mm shaft  
length, 0.75 mm diameter,  
2 mm exposed tip, 1mm tip  
separation. 1 pc



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