Product Showcase

The Smart Way to Manage Your Testing
National Safety Technologies manufacturers and distributes testing and measurement devices for healthcare facilities that make required testing easy.

NST knows you are committed to complying with The Joint Commission, NFPA and FDA requirements and guidelines for safety at your facility. NST is here to provide you with the tools to do so.

NST products are faster, easier and more automated than any other product available today. You will achieve greater accuracy, increased reliability and the peace of mind knowing your facility will pass inspection for safety requirements.

Utility Safety and Compliance
Medical utility testing is an important fact of life for healthcare facilities like yours. The Joint Commission and the NFPA developed strict standards for utility operations within healthcare facilities. In addition, some manufacturers of utility components recommend testing as frequently as every six months.

That is where National Safety Technologies (NST) comes in. Since 1988, NST has helped facilities like yours cut down on the time and resources it takes to do the required testing; by as much as 50 percent or more. And that means substantial cost savings for you. With NST analyzers, compliance has never been so easy.

Bed System Entrapment Measurement
For 20 years, the FDA has received reports in which vulnerable patients have become entrapped in hospital beds while undergoing care and treatment in healthcare facilities. In response to these reports, the FDA, along with the US Dept. of Veterans Affairs, The Joint Commission, ECRI Institute, NFPA and other patient advocacy groups and industry representatives formed the Hospital Bed Safety Workgroup. The HBSW worked to develop a system for ensuring patient safety in hospital bed systems, which was then published as a guidance document by the FDA in 2006. Along with the guidance document the HBSW developed the Bed System Measurement Device to test bed system for compliance with the guidance document. The HBSW then chose NST to be the sole manufacturer of this innovative device.

Proven Technology
Hundreds of healthcare providers across the country, large and small, are using NST analyzers and measurement devices as part of their internal testing programs. NST customers range from 30-bed to 1,300 bed facilities.

This group of customers includes:
- Johns Hopkins Hospital
- The Cleveland Clinic
- UCLA Healthcare
- Duke University Hospital
- Mayo Clinic
- Children’s Hospital of Philadelphia
- Kaiser Permanente Health System
- Hospital of the University of Pennsylvania
- The New York Hospital
- Brooke Army Medical Center
- Many VA and USAF Medical Centers
**R7000 Electrical Receptacle Analyzer**

The New R7000 Electrical Receptacle Analyzer is an advanced device that will drastically simplify your electrical receptacle testing. The R7000 facilitates compliance and promotes safety while dramatically reducing the time spent testing and generating required reports. An electrical receptacle is tested in a matter of seconds. Test results are displayed with confirmation of whether the results comply with established safety standards.

The new detachable reference cord offers two different test routines: (1) an expanded program with comparative testing (2) a simplified program for troubleshooting and quick checks. Your testing frustrations have been eliminated in this convenient package. It’s easy to use, yet packed with power.

**Features:**
- Touchscreen allows trouble-free data entry.
- Large display shows multiple test results.
- Preloading capabilities eliminate repetitive typing.
- Time and date are automatically recorded.
- Optional reference cord allows either comparative or simplified test routines.
- Report Commander™ software creates fully formatted reports.
- Sizable memory stores test results for up to 10,000 outlets.

**Key Benefits:**
- Automated testing reduces likelihood of errors.
- Up to 12 tests per receptacle ensures safety compliance and facilitates troubleshooting.
- Automatically-generated or user-created templates eliminate tedious and redundant receptacle documentation.
- Easily generates NFPA compliant reports.
- Saves money compared to lengthy in-house test procedures or hiring outside specialists.

**Specifications:**

**Mode of Operation** - Automated testing and data collection

**Tests Performed** - Standard "OKX" Test to Check Receptacle Wiring Polarity • Isolated Power Wiring • Line Voltage • Phase Relationship Between Receptacles • Neutral to Ground Voltage • Neutral to Ground Resistance • Ground to Ground Voltage • Ground to Ground Resistance • Contact Tension (Gripping Force) of Hot, Neutral and Ground Prongs

**Weight**
- In Use: Analyzer and Test Probe – Approx. 4 lbs.
- In Use: Analyzer, Test Probe and Reference Cord – Approx. 5 lbs.
- In Storage: Analyzer, Test Probe and Reference Cord – Approx. 13 lbs.

**Size**
- Analyzer: 9” W x 2 ¾” H x 7 ½” D
- Storage Case: 18” W x 5 ½” H x 14” D

**Power**
- In Use with Reference Cord: Line Voltage – 115VAC, Frequency – 60Hz
- In Use without Reference Cord: Rechargeable Battery – Approx. 10 hrs. of operation per charge

**Hardware Included:**
- Analyzer with touchscreen display
- Test Probe for 115-volt electrical receptacles
- Optional reference cord for comparative testing
- Independent charging cable
- USB cable for uploading/downloading
- Shoulder/neck straps
- Software installation disc and user’s guide
- Samsonite® hard briefcase

**Software Included:**
- Newly developed Report Commander™ data/template collection and reporting software.

**Warranty:**
With the purchase of the R7000 Electrical Receptacle Analyzer, NST offers a one-year warranty on all parts and labor.

**Calibration:**
NST Analyzers are calibrated to NST traceable standards before they leave the NST warehouse. Each NST analyzer comes with a 30-day limited money back guarantee.

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*Samsonite is a registered trademark of Samsonite Corporation.*
**G4000 Medical Gas Outlet Analyzer**

The G4000 Medical Gas Analyzer completes multiple tests in seconds while simultaneously developing reports recognized by The Joint Commission. The G4000 is operated by Samsung Galaxy Tab 31 for Android™ using Bluetooth technology and calibrated according to NIST Standards.

**Key Benefits:**
- Instantly create reports recognized by The Joint Commission
- Wi-Fi capable for wireless report printing and distribution
- Faster and more efficient than hand-held devices
- Light weight, compact design makes easy to use and carry
- Provides compliance to NFPA 99 Code for Gas and Vacuum Systems*

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**Tests Performed**
- **NEW** Transient Flow for Critical Care Areas
- **NEW** Gas Concentration
- Expected Gas / Detected Gas
- Static Pressure
- Flow Test
- Pressure Drop

**Outlets Tested**
- **NEW** Carbon Dioxide
- **NEW** Waste Anesthetic Gas Disposal (WAGD)
- Medical Air
- Nitrous Oxide
- Nitrogen
- Oxygen
- Vacuum

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**Specifications:**

- **Mode of Operation:** Samsung Galaxy Tab 31 for Android™ via Bluetooth
- **Outlet Tested:** Oxygen, Medical Air, Nitrous Oxide, Carbon Dioxide, Nitrogen, Vacuum, WAGD (Waste Anesthetic Gas Disposal)
- **Tests Performed:** Expected/Detected Gas, Static Pressure, Flow Test, Pressure Drop, Gas Concentration, Transient Flow Test for Critical Care Areas
- **Pressure Flow:** Maximum Static Pressure: 220 PSIG
  - Maximum Flow Rate: 180 LPM
- **Weight:**
  - In Use: 5 lbs
  - In Storage: 14 lbs
- **Size:**
  - Analyzer – 9” W x 2 ¾” H x 7 ½” D
  - Storage Case – 18” W x 5 ½” H x 14” D

**Hardware Included:**
- Samsung Galaxy Tab 31 for Android™
- Gas Analyzer Interface
- Set of quick-disconnect adapters (mate with hospital medical gas outlets)
- Charging Cable
- Shoulder/Neck Straps
- User’s Guide
- Storage Briefcase

**Software Included:**
- MedGas Commander for Android Application

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**Warranty:**
With the purchase of the G4000 Medical Gas Outlet Analyzer, NST offers a one-year warranty on all parts and labor.  

**Guarantee:**
Each NST analyzer comes with a 30-day limited money back guarantee.

**Calibration:**
NST Analyzers are calibrated to NIST traceable standards before they leave the NST warehouse. Annual calibrations are required.

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*NFPA 99 codes 5.1.12.3.10-11, 5.1.14.4.1, 5.1.15, Annex 5.1.15
1 Tablet may vary based on manufacturer availability.

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Scan here for more information
B4000 Bed System Measurement Device

In 2006 the FDA, with the help of the Hospital Bed Safety Workgroup issued a guidance document entitled, “Hospital Bed System Dimensional and Assessment Guidance to Reduce Entrapment.” These guidelines aid in the design of new bed systems and assess entrapment risks associated with hospital bed systems. In response to these guidelines, National Safety Technologies offers the innovative Bed System Measurement Device.

The Bed System Measurement Device offers you the following features and benefits:
- The validated test tool for assessing a bed system’s conformance to the FDA guidance.
- The only device specifically designed to test the four critical entrapment zones of a bed system.
- Allows a two-person team to test a complete bed system within 15 minutes.
- Easy to read Pass/Fail indicators located on the device.
- Safety strap designed to prevent the device from falling on your feet during testing.

Product Offering:
**Cone and Cylinder Tool**
The Cone and Cylinder Tool are used together for testing Zone 4 or easily detach to allow use of the Cone only for testing Zones 1-3.

**Key Dimensions:**
- The diameter of the large end of the cone is the width of a small adult head or 4 ¾ inches (120 mm).
- The diameter of the cylinder is the size of a small adult neck or 2 ⅓ inches (60 mm).
- The cone and cylinder together is the weight of a small adult head and neck or 15 lbs.

**Features:**
- Easy to read red and green zones on the cylinder section for measuring side rails
- Easy to read lines on the cone to measure mattress compression
- A safety strap to prevent the device from falling to the floor
- Attachment ring for spring scale

**Scale**
The scale is used to apply 12 lbs. of force to the cone for testing Zones 1 and 2.

**Features:**
- Large, clearly marked scale
- A hook used to connect the scale to the Cone tool

**4 Critical Entrapment Test Zones**
As determined by the Hospital Bed Safety Workgroup:
There are 4 tests designed to measure gaps in the bed system where a patient can become entrapped.

- **Zone 1 - Within the bed rail itself.**
- **Zone 2 - Between the bottom of the rail, the top of the mattress and between the rail supports.**
- **Zone 3 - Between the outside edge of the mattress and the inside of the side rail.**
- **Zone 4 - Between the top of the compressed mattress and the bottom of the rail, at the end of the rail.**

**FDA Guidance Document available at:**
http://tinyurl.com/nst-bed-fda

**Health Canada Guidance Document available at:**
http://tinyurl.com/nst-bed-canada
NST Testing Cart

The NST Testing Cart (Product #C1000) offers a sturdy, easily maneuverable work surface for your testing needs. It is small enough to fit into tight spaces yet provides a generous work surface to log testing information and carry any tools or accessories you might need.

What it Includes:
- Cart with extenders to reach standing height of 35”
- Test probe holder (only applicable with G3000)
- Velcro to secure analyzer (and laptop if included)
- Bin for adapters and/or other tools or supplies

Dimensions:
- 22” d x 17” w x 35” h
- 2 ¾ inch casters

Optional Accessories:
- CD Holder
- Drawer (3”h)
- Handle 12” Straight
- Handle
- Metal Tray
- Hooks
- Shelf
- Mouse Shelf (Clamp on)
- Shelf Wire Base
- Surge Protector (Black)

Scan here for more information