Biomedical Safety Testing and Measuring

With over 35 years of experience, Rigel Medical has become the fastest growing and market leading provider of biomedical test equipment.

Our comprehensive suite of electrical safety analyzers, performance analyzers and vital signs simulators enable biomedical and clinical engineers to confirm their compliance to industry standards, manufacturers’ specifications and most importantly, keeping patients, visitors, and staff safe in a healthcare environment.

Alongside our commitment to quality, we also offer peace of mind to our customers who know that help and advice is always available.

Our Tampa FL office is ready to serve you with technical support, calibration and video training. We supplement our US calibration with several regionally located calibration partners.
288+
Accurate and fast electrical safety tester
The 288+ is the first truly handheld medical electrical safety tester to combine the features of an automatic/manual tester with data logging/asset management capability. Operation is through a menu driven GUI. A 5,000 record memory and Bluetooth connectivity make this an effective mobile unit.

Features include:
- Light, handheld, battery operation*
- Conforms to IEC 62353 / 60601 / VDE 0751 / NFPA-99 / AS-NZS 3551
- Memory for up to 5,000 devices
- Bluetooth communication
- Full, semi-automatic and manual testing
- Straightforward data transfer with the Rigel 288+ Downloader app**

62353+
Accurate and fast electrical safety tester
The 62353+ is a cost-effective automatic safety analyzer dedicated to the IEC 62353 standard for electrical safety testing of medical devices. It offers automatic test sequences, data storage, and PC download capabilities.

Features include:
- Light, handheld, battery operation*
- Conforms to IEC 62353 / NFPA-99
- Fully customizable test sequences
- Easy data entry and storage
- PC download
- Full, semi-automatic and manual testing

*Battery operation of “stay alive”, data transfer and ground continuity testing

**Available on Android devices only. Downloadable from the Google Play store.
SafeTest 99
A medical safety analyzer with patient lead testing
The SafeTest 99 is a robust, reliable and dedicated medical safety analyzer for general electrical safety testing. Ideal for testing medical and lab equipment that requires patient lead testing.

Features include:
- Light, handheld, universal AC input voltage
- Tests to NFPA-99
- Large color display
- Secondary ground warning
- Patient lead testing

SafeTest 50
A cost-effective medical safety analyzer for general electrical safety testing
The SafeTest 50 is a robust, reliable and dedicated medical safety analyzer for general electrical safety testing. Ideal for testing medical and lab equipment that does not require patient lead testing such as beds, mattress inflators and hoists etc.

Features include:
- Light, handheld, universal AC input voltage
- Complies with NFPA-99
- Large color display
- Secondary ground warning
- Manual control of SFC, minimal power cycling
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<td>NFPA 99</td>
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<td>Voltage input</td>
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<td>Open ground, open neutral, mains reversed</td>
<td>Open ground, open neutral, mains reversed</td>
<td>Open ground, open neutral, mains reversed</td>
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¹Provides measured values so actually compliant with other standard or codes (e.g. IEC 62353)

²220vac units available

³Mains on applied parts

Find out more at: [www.rigelmedical.com/safetyanalyzers](http://www.rigelmedical.com/safetyanalyzers)
Uni-Therm
High current electrosurgical analyzer
The Uni-Therm offers the latest technology in high frequency power measurement. It’s small, easy-to-use and has a large color display and innovative navigation, making this a fast, efficient test tool for testing the performance of ESU generators.

Features include:
- HF leakage test
- Power distribution from 5 to 5115Ω
- Current measurement up to 6A RMS continuous
- Return plate security test (REM/CQM)
- On-board data storage

Multi-Flo
Market leading infusion pump analyzer
The market defining Multi-Flo infusion pump analyzer is a portable instrument to accurately and swiftly verify the performance of all infusion devices. Offering instantaneous flow and available in 1, 2 and 4 individual channel configurations.

Features include:
- IEC 60601-2-24 compliant
- Instant flow and pressure
- Compatible with all infusion devices
- On-screen flow graphs
- On-board data storage
UniPulse 400
An easy-to-use defibrillator analyzer with pacer
The UniPulse 400 is designed to comprehensively test all defibrillators accurately and efficiently. The large vibrant color screen will display both test results and waveforms in amazing detail. The dedicated fast keys and simple to use operating system enables biomedical/clinical engineers to select the relevant test function in seconds.

Features include:
- Light handheld, battery operation
- Pacer functionality
- Compatible with monophasic, biphasic and pulsed waveforms
- Reliable and non-inductive test load of 50Ω
- Patient simulator with ECG hi output

VenTest Series
High-performance gas flow analyzers for ventilator measurement and calibration
The VenTest measures flow, pressure, temperature, humidity and O2 concentrations bi-directionally. The adult, pediatric and high frequency ventilation measuring modes make the VenTest the ideal calibration tool for all ventilators, anesthesia machines and spirometers.

Features include:
- All-in-one analyzer
- Measures and calculates all common respiratory parameters
- Compatible with gas standards and gas types
- Built-in data storage with optional software for total traceability
- USB, RS-232 and external trigger interface
- Portable with battery operation

Find out more on our performance analyzers at: www.rigelmedical.com/performance
PatSim 200
A cost-effective, easy-to-use patient simulator

Designed to make every patient simulation quicker by utilizing a home and recall function. Save your 5 most used simulations, and with universal EKG studs and mini DIN connectors, this is the most cost- and time-effective unit on the market.

Features include:
- An instant low cost replacement
- Simple, fast navigation
- Lightweight, compact unit with rechargeable Li-Ion battery
- Recall most used simulations
- Fetal/maternal monitoring

UNI-Sim Lite
The most cost-effective patient simulator on the market

The world’s first combined, fully functional NBP, SpO2 and patient simulator in a single handheld unit. Extremely accurate and featuring full synchronized functionality. The UNI-Sim saves time and money.

Features include:
- Light, handheld, battery operation
- Combined NIBP, SpO2 and patient simulator in one unit
- User configurable simulations
- Full synchronized functionality
- Memory for up to 5,000 devices
BP-Sim
Handheld NIBP simulator

The first handheld NIBP simulator to incorporate custom settings, including pediatric and adult NIBP pressure simulations, pulse volume adjustments, heart rate and manufacturer-specific envelopes.

Features include:
- Light, handheld battery operation
- Adult and pediatric NIBP simulations
- Manufacturer-specific O-curves
- Overpressure and leak test
- Memory for up to 5,000 devices
- Internal pneumatic pump

SP-Sim
Handheld SpO2 simulator

The first handheld SpO2 simulator featuring pulse volume adjustments, heart rate and manufacturer specific R-curves.

Features include:
- Light, handheld, battery operation
- Tests probe and monitor both at the same time
- User configurable simulations
- Manufacturer R-curves
- Memory for up to 5,000 devices
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Note¹ 5 programmable presets

Find out more on our Vital Signs Simulators at: [www.rigelmedical.com/simulators](http://www.rigelmedical.com/simulators)
**Supporting Products**

**Med-eBase**

Med-eBase software is designed to save you time and money. It can be used in a number of database environments. All your data will be easily accessible, and with the ability to schedule work orders, analyze test data and create certificates, your data will be secure and easy to manage.

**Features include:**

- Database management and scheduling
- Comparison alerts
- Customized test certificates
- Perfect for small independent service organizations.

[www.rigelmedical.com/med-ebase](http://www.rigelmedical.com/med-ebase)

**Accessories**

There are a range of accessories to maximize your Rigel products, and to make sure you are covered for any eventuality. To see the wide range of accessories that we offer, please visit:

[www.rigelmedical.com/accessories](http://www.rigelmedical.com/accessories)

**Call us for CMMS connectivity:** +1 (813) 886-2775

**Service, calibration and repair**

Rigel Medical has a calibration laboratory within our Tampa facility, providing fast and economical service for your Rigel products. We have also taken the extra step to train and authorize several independent calibration houses across the United States and Mexico, many offering on-site calibration services.

[www.rigelmedical.com/service-centre](http://www.rigelmedical.com/service-centre)

To find out more visit: [www.rigelmedical.com](http://www.rigelmedical.com)

Get in touch, we'd love to hear from you!