

# SafeTest 99

A medical safety analyzer with patient lead testing.



The new **SafeTest 99** is a simple, rugged and cost-effective medical safety analyzer for general electrical safety and patient lead testing. With a large color display and a color coded user interface, it's easy to select the required test at a touch of a button.

The **SafeTest 99** is perfect for high volume testing of medical and laboratory equipment, with or without patient leads. Thanks to the easy to use interface and simple layout, and a fast selection of test routines, testing has never been so easy and dependable!

Compact and portable with a full range of safety tests in accordance with NFPA-99, the **SafeTest 99** enables compliance and reduces downtime in medical and laboratory equipment.

Full manual control offers the benefit of executing only those specific tests that are required and provide the user with full control of the power cycles, making testing simple, easy and fast.

An automatic warning of secondary ground paths ensures users are made aware when invalid readings are made, thus ensuring correct and accurate test results first time, every time.

These are just a few of the reasons we believe you'll want to invest in our **SafeTest 99**. To see for yourself, request a live online demonstration today!

To see the new **SafeTest 99** for yourself, request your live online demonstration today at [Rigelmedical.com/SafeTest99](http://Rigelmedical.com/SafeTest99)

## Why buy the SafeTest 99 ?

- > **Test in accordance with NFPA-99** – including patient lead leakage, perfect for high volume testing.
- > **Small and compact** – Robust, compact and portable, the **SafeTest 99** makes it easier to perform tests.
- > **Accurate high current, low energy continuity testing** – Our unique bond technology, gives accurate and precise readings.
- > **Large color display** – and color coded user interface makes the **SafeTest 99** simple and efficient to use.

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## Key Features:

- > Compact, rugged and portable design
- > Fast step-through of test routines with minimized power breaks
- > Manual control of fault conditions
- > Tests to standard NFPA-99
- > Includes patient lead leakage
- > Large color display
- > Secondary ground warnings to ensure valid tests
- > Accurate high current, low energy ground continuity testing
- > Ready to use, box to bench
- > Supplied with free protective carry case
- > Universal power input

## Electrical/analysis functions:

- > Ground Leakage
- > Chassis Leakage
- > Patient Lead Leakage
- > Ground Continuity

## Electrical safety tests:

- > Point-to-point testing
- > Line voltage measurement
- > Line frequency measurement
- > Load current measurement

T: 1 (813) 886 - 2775

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## Technical Specification

### Ground Continuity

Method	2 wire ZAP technique
Test Current	$>\pm 200\text{mADC}$ into $2\Omega$
Max Test Voltage	4-24Vrms o/c
Measuring Range (low range)	0.001 - 0.999 $\Omega$
Resolution	0.001 $\Omega$
Measuring Range (mid range)	1.00 - 9.99 $\Omega$
Resolution	0.01 $\Omega$
Measuring Range (high range)	10.0 - 19.9 $\Omega$
Resolution	0.1 $\Omega$
Accuracy	$\pm 1\%$ of value, $\pm 5\text{m}\Omega$
Circuit Protection	Test inhibited if $\geq 30\text{VAC}$ or DC at 4mm inputs

### Powered Leakage Measurements

NFPA-99	Ground leakage Chassis leakage (Touch Current) Patient lead leakage
Measuring Range	0.1 - 9999 $\mu\text{A}$
Measurement/Display Resolution	0.1 $\mu\text{A}$
Accuracy	$\pm 2\%$ , $\pm 5\mu\text{A}$
Mains Reversal	Soft key
Single Fault Conditions Open neutral	Via soft key
Open ground	Via soft key

### Voltage measurement

Application	H-N, H-G, N-G and touch voltage (IEC 61010)
Range	0.0V - 300VAC
Resolution	0.1V
Accuracy	$\pm 2\% \pm 5$ digits (between 10V - 270VAC)
Mains frequency	45.0 - 66.0Hz
Resolution	0.1Hz
Accuracy	Unspecified

### EUT Load Current Measurement

Range	0.0A - 20.0A
Resolution	0.1A
Accuracy	$\pm 5\% \pm 2$ digits

### Power Source

Maximum current rating	20A @ 120V / 16A @ 230V
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## Power Source Continued...

Duty cycle (@70°F ambient)

16A to 20A, 3 min. on/ 10 min. off

10A to 15A, 3 min. on/ 5 min. off

0A to 10A, continuous

Mains power

90-264V 48-64Hz

Weight

2.5lbs (unit)

Size (L x W x D)

5lbs (complete with accessories)

9 x 6 x 4"

## Environmental

Operating temperature

32 to 104°F

Humidity

0 -98% Relative humidity, no-condensation

Storage temperature

14 to 122°F

Altitude

0 - 2185 yards

Ingress Protection

IP 40

Operating pollution degree

2, according to IEC 60529

## Applied Parts Connection Box

Size (L x W x D)

6.1 x 2.6 x 1.1" (not including flying lead)

Weight

0.33lbs

Rating

Category I

Environmental Protection

IP 40

Impact rating

5J

Meets the safety standard

BS EN 61010-1:2010      Pollution degree 2

Voltage rating (maximum)

230Vac

**Part Number:** 417A910

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