



SafeTest 99

A medical safety analyzer with patient lead testing



The 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 if a button.

It 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!

Why buy the SafeTest 99?

- > Compact, robust and portable with a full range of safety tests in accordance with NFPA 99
- > 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
- > Large color display and color coded user interface makes the SafeTest 99 simple and efficient to use.

Key Features:

- > Compact, rugged and portable design
- > 10 lead patient leakage testing
- > Accurate high current, low energy ground continuity testing
- > Ready to use, box to bench
- > Universal power input
- > Full range of medical electrical safety tests to NFPA-99

Passionate about patient safety.
T: +44 (0) 191 587 8730 E: sales@rigelmedical.com



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See the **SafeTest 99** for yourself, request your FREE live online demonstration today at rigelmedical.com/safetest99



What's in the box?

- > Rigel SafeTest 99
- > Detachable 2m mains lead
- > Ground bond test probe with clip
- > Calibration Certificate
- > Carry Case

Optional Accessories:

- > Ground bond cable (44B154)
- > Replacement carry case (410A950)

Technical Specification:

Ground Continuity

Method	2 wire ZAP technique
Test Current	>± 200mADC into 2Ω
Max Test Voltage	4-24Vrms o/c
Measuring Range (low range)	0.001 - 0.999Ω / 0.001Ω resolution
Measuring Range (mid range)	1.00 - 9.99Ω / 0.01Ω resolution
Measuring Range (high range)	10.0 - 19.9Ω / 0.1Ω resolution
Accuracy	± 1% of value, ± 5mΩ
Circuit Protection	Test inhibited if ≥30VAC or DC at 4mm inputs

Powered Leakage Measurements

NFPA-99	Ground leakage Chassis leakage (Touch Current) Patient lead leakage
IEC 61010	Touch Leakage, Touch Voltage
Test Voltage	Mains Supply Voltage
Measuring Range	0.1 - 9999μA
Measurement/Display Resolution	0.1μA
Accuracy	± 2%, ± 5μA
Mains Reversal	Soft Key
Single Fault Conditions	Open Neutral and 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	± 2% ± 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	±5% ± 2 digits

Power Source

Maximum Current Rating	20A @ 120V / 16A @ 230V
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

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Service and Warranty

The SafeTest 99 comes with a free upgraded 24-month warranty, subject to terms and conditions, available at

rigelmedical.com/register

General Specifications:

Weight	2.5lbs (unit) 5lbs (complete with accessories)
Size (L x W x D)	9 x 6 x 4"
Operating Temperature	32 to 104°F
Humidity	0 -98% Relative humidity, non-condensating
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
Voltage rating (maximum)	Pollution degree 2 230Vac

Rev 2

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