



The Rigel SafeTest 50 is a rugged, reliable and dedicated medical safety analyzer. It is ideal for testing high volumes of medical and laboratory equipment that does not need patient lead testing.

With a large color display and a colorcoded user interface, it's easy to select the required tests with a single key press. A fast selection of the test routine makes the testing process speedy and dependable.

Why buy the SafeTest 50?

- > A compact, reliable and dedicated medical safety analyzer with a large color display and a color-coded user interface
- > Fast selection of tests and fault conditions with a single key press
- > Test to national and international standards, including NFPA 99, IEC 60601 and IEC 62353

Key Features:

- > Compact, rugged and portable design
- > Ready to use, box to bench
- > Manual control of fault conditions
- > Accurate high current, low energy bond testing
- > Leakage testing to NFPA-99, ES 60601, IEC 62353 and 61010
- > Ground bond testing to NFPA-99, IEC 62353 and 61010

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



See the **SafeTest** 50 for yourself, request your FREE live online demonstration today at **rigeImedical.com/safetest50**







What's in the box?

- > Rigel SafeTest 50
- > 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

Method2 wire ZAP techniqueTest Current> \pm 200mADC into 2ΩMax Test Voltage4-24Vrms o/c

 $\begin{array}{ll} \text{Measuring Range (low range)} & 0.001 - 0.999 \Omega \, / \, 0.001 \Omega \text{ resolution} \\ \text{Measuring Range (mid range)} & 1.00 - 9.99 \Omega \, / \, 0.01 \Omega \text{ resolution} \\ \text{Measuring Range (high range)} & 10.0 - 19.9 \Omega \, / \, 0.1 \Omega \text{ resolution} \\ \end{array}$

Accuracy \pm 1% of value, \pm 5m Ω

Circuit Protection Test inhibited if ≥30VAC or DC

at 4mm inputs

Insulation Resistance (Non US versions only)

Measurement EUT to Earth
Voltage 500VDC @1mA

Maximum O/C Voltage <600VDC

Range $100K - 20M\Omega \pm 5\% \pm 2 \text{ digits}$

 $\begin{array}{ll} \mbox{Resolution} & \mbox{0.01M}\Omega \\ \mbox{Short Circuit Current} & \mbox{<2mA} \end{array}$

Powered Leakage Measurements

IEC 62353Equipment Leakage (Direct)IEC / AAMI 60601Earth + Enclosure LeakageNFPA-99Ground + Chassis LeakageIEC 61010Touch Leakage, Touch Voltage

Test Voltage Mains Supply Voltage

Measuring Range 0.1 - 9999µA

(0.1 - 8000µA typical for IEC61010)

Measurement/Display Resolution 0.1 μ A Accuracy \pm 2%, \pm 5 μ A Mains Reversal Soft Key

Single Fault Conditions Open Neutral and Open Ground

Via Soft Key

Frequency Response IEC 60601 - 62353, NFPA-99, and

IEC 61010 selectable

Voltage Measurement

Range

Application L-N, L-E, N-E and touch voltage

(IEC 61010) 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

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Service and Warranty

The SafeTest 50 comes with a free upgraded 24-month warranty, subject to terms and conditions, available at

rigelmedical.com/register

Technical Specification (Continued):

Ingress Protection

Overvoltage Category

Operating Pollution Degree

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EUT Load Current Measurement	0.0A - 20.0A
Range Resolution	0.0A - 20.0A 0.1A
Accuracy	±5% ± 2 digits
Power Source	
Maximum Current Rating	20A @ 120V / 16A @ 230V
Duty cycle (@21°C ambient)	15A to 20A, 5 min. on/5 min. off
	10A to 15A, 7 min. on/3 min. off
	0A to 10A, continuous
Mains Power	90-264V 48-64Hz
General Specifications:	
Weight	1.1kg/2lbs (unit)
	2.2kg/5lbs (complete with
	accessories)
Size (L x W x D)	225 x 150 x 100mm / 9 x 6 x 4"
Operating Temperature	0 to 40°C
Humidity	0 -98% Relative humidity,
	non-condensating
Storage Temperature	-10 to 50°C
Altitude	0 = 2000m

Rev 2

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2, according to IEC 60529

CAT II 300V