SafeTest 60

An entry-level electrical safety analyzer for medical devices



The Rigel SafeTest 60 is a robust, reliable and dedicated medical safety analyzer. It is ideal for testing high volumes of medical and laboratory equipment that does not require patient lead testing, such as beds, hoists, infusion pumps, CPAP's and centrifuges etc.

The SafeTest 60 includes a range of safety tests to enable compliance with a range of international safety standards, including leakage testing to IEC 60601, 62353, 61010 and NFPA-99, earth bond testing to 62353, 61010 and NFPA-99, and insulation testing to IEC 62353.

Why buy the SafeTest 60?

> The SafeTest 60 is available in a wide range of power configurations to suit local and international markets

> With a large colour display and a colour-coded user interface, it's easy to select the required tests with a single key press, whilst a fast step-through of the test routine makes the testing process speedy and dependable.

Key Features:

RIGEL MEDICAL

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> Compact, robust and portable design

SafeTest 60

0.164 Ω

- > Manual control of fault conditions and tests
- > Accurate high current, low energy earth bond testing
- > Automatic warning of secondary earth/ground paths

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



See the **SafeTest** 60 for yourself, request your FREE live online demonstration today at **rigeImedical.com/safetest60**



What's in the box?	Technical Specification:	
> Rigel SafeTest 60	Earth Continuity	
> Detachable 2m mains lead	Pre-pulse	65-25A peak current,
		(0.1 to 0.8 Ω respectively)
> Earth/ground bond test probe with	Pulse Shape	Exponential Decay
clip	Decay Time	200 – 550µs to 5% of peak
> Calibration Certificate	Matha al	(0.1 to 0.8Ω respectively)
	Method Measurement Current	2 Wire >± 200mADC into 2Ω
> Carry Case	Measurement Current Max Test Voltage	4-24Vrms o/c
	Measuring Range (Low Range)	$4-240000 = 0.999\Omega$
Optional Accessories:	Resolution	0.001 - 0.93932
Optional Accessories:	Measuring Range (Mid Range)	1.00 - 9.99Ω
> Earth bond cable	Resolution	0.01Ω
> Replacement carry case	Measuring Range (High Range)	10.0 – 19.9Ω
replacement carry case	Resolution	0.1Ω
	Accuracy	\pm 1% of value, \pm 5m Ω
		\pm 1% of value, \pm 5m Ω
	Circuit Protection	Test inhibited if \geq 30VAC
		or DC at 4mm inputs
	Insulation Resistance	
	Measurement	EUT to Earth
	Voltage	500VDC @1mA
	Maximum O/C Voltage	<600VDC
	Range	100K – 20MΩ ± 5% ± 2 digits
	Resolution	0.01ΜΩ
	Short Circuit Current	<2mA
	Powered Leakage Measurements	
	IEC 62353	Equipment Leakage (Direct)
	IEC / AAMI 60601	Earth + Enclosure Leakage
	NFPA-99	Ground + Chassis Leakage
	IEC 61010 Test Voltage	Touch Leakage, Touch Voltage Mains Supply Voltage
	Measuring Range	0.1 - 9999µA
	Measuring Range	(0.1 - 8000µA typical for IEC61010)
	Measurement/Display Resolution	0.1µA
	Accuracy	± 2%, ± 5µA
	Mains Reversal	Soft Key
	Single Fault Conditions	Open Neutral and Open Earth
	-	Via Soft Key
	Frequency Response	IEC 60601 - 62353, NFPA-99, and
		IEC 61010 selectable

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Service and Warranty	Technical Specification (Continued):	
The SafeTest 60 comes with a free 12-month warranty, subject to terms and conditions, available at rigeImedical.com/register	Voltage Measurement Application Range Resolution Accuracy Mains frequency	L-N, L-E, N-E and touch voltage (IEC 61010) 0.0V - 300VAC 0.1V ± 2% ± 5 digits (between 10V - 270VAC) 45.0 - 66.0Hz
	Resolution Accuracy	0.1Hz Unspecified
	EUT Load Current Measurement Range Resolution Accuracy	0.0A - 20.0A 0.1A ±5% ± 2 digits
	Power Source Maximum Current Rating Duty cycle (@21°C ambient)	20A @ 120V / 16A @ 230V 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
	General Specifications:	
	Weight	1.1kg/2lbs (unit) 2.2kg/5lbs (complete with accessories)
	Size (L x W x D) Operating Temperature Humidity	225 x 150 x 100mm / 9 x 6 x 4" 0 to 40°C 0 -98% Relative humidity, non-condensating
	Storage Temperature Altitude Ingress Protection Operating Pollution Degree Overvoltage Category	-10 to 50°C 0 – 2000m IP 40 2, according to IEC 60529 CAT II 300V

Rev 2

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