## **Rigel 288**+

Accurate and fast electrical safety tester

0.075

The Rigel 288+ is the first truly handheld medical electrical safety tester to combine the features of an automatic / manual tester with data logging and asset management capability. Operation is through a menu driven CUI. A 5,000 record memory and Bluetooth connectivity make this an effective mobile unit.

The Rigel 288+ electrical safety analyzer offers an accurate and fast solution for meeting international and local safety standards, including: IEC/EN 62353, AAMI/IEC/EN 60601-1, IEC 61010, NFPA-99, AS/NZ 3551

## Why buy the Rigel 288+?

> The 288+ is available in several different plug and socket types

> A light, handheld design with battery operation gives you the freedom to move around.

> Predefined and custom test routines make testing more efficient and dependable

## **Key Features**:

> Automatic warning of secondary earth/ground paths

Vigel 288+

- > Battery powered earth/ground bond, insulation and leakage testing
- > Accurate high current, low energy earth bond testing
- > Bluetooth communication

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



 $0.075_{\Omega}$ 



See the **288**+ for yourself, request your FREE live online demonstration today at **rigelmedical.com/288plus** 



		······································
What's in the box?	Technical Specification:	
> Calibration certificate	Earth Continuity	
> Carrying case	Pre-pulse	65-25A peak current,
> Earth/ground bond test probe	Pulse shape	(0.1 to 0.8 Ω respectively) Exponential decay
with clip and clip lead	Decay time	200 - 550µs to 5% of peak current
> Patient Applied part module	Method 2 wire technique	(0.1 to 0.8 Ω respectively) using 'zero' lead function.
> 10 Applied part adaptors	Test Current	>+200mA -200mA DC into 2 ohms
> Detachable 2 meter mains cable	Max Test Voltage	4-24V rms o/c
> Quick start guide	Measuring Range (low range)	(6V for IEC 60601 tests) 0.001 – 0.999 ohms
> Quick start guide		@ 0.001 ohms resolution
Optional Accessories:	Measuring Range (mid range)	1.00 – 9.99 ohms /
> Med-eBase test solution software	Measuring Range (high range)	@ 0.01 ohms resolution 10.0 – 19.9 ohms
(383A910)		@ 0.1 ohms resolution
> Barcode scanner with embedded	Accuracy	± 3% of reading + 10 m ohms
Bluetooth (339A923)	Insulation Resistance	
> Bluetooth Test n Tag Elite 2 Printer	Measurement	EUT to Earth / Ground, EUT to AP, AP to Ground
(339A989)	Voltage	50, 100, 250 & 500 V DC @ 1mA.
> Bluetooth results printer (339A930)	Range (low range) @ 50V DC	0.01Mohms - 10Mohms
	Range (low range) @ Above 50V DC Accuracy (low range)	0.01Mohms - 20Mohms ± 5% of reading + 2 counts
	Range (high range) @ 500V DC	20Mohms – 100Mohms
	Range (high range) @ 250V DC	20Mohms – 50Mohms
	Accuracy (high range) Resolution	±10% +2 counts 0.01Mohms
	Direct Leakage Measurement	
	Measuring Range	4µA to 9999µA
	Accuracy	± 5% or reading +2 counts
	Mains on A.P. voltage Measuring Device	F-type only @ 110% of mains As per IEC 60601-1 requirements
	Measurement Type	Separate AC & DC for Patient
		(Auxiliary) Leakage to IEC 60601,
		True RMS for all remaining Leakage tests
	Differential Leakers Manuscret	
	Differential Leakage Measurement Measuring Range	75µA to 9999µA
	Accuracy	±5% of reading + 5 counts
	Measurement / display resolution	
	Measurement Type Measuring Device	True RMS frequency response characteristics
	5	to IEC 60601-1.

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



## See the **288**+ for yourself, request your FREE live online demonstration today at **rigelmedical.com/288plus**



Service and Warranty	Technical Specification (Continued):	
The 288+ comes with a free 12-month warranty, subject to terms and conditions, available at rigeImedical.com/register	Alternative Leakage Measurement Test Voltage Test Current Measurement Range Measurement Resolution Measurement Accuracy Measurement Type Measuring Device	250V at mains frequency 3.5 mA current limited 4μA to 9999μA 1μA ±5% of reading + 2 counts True RMS As per IEC 60601-1
	<b>Power Measurement</b> Method Range Accuracy	VA rating 0.1KVA - 4KVA ±10% + 2 counts
	Mains Outlet Test Input voltage range Max current Measures Accuracy	0-300V AC 16A L - E, N - E ± 5% of reading + 2 counts
	<b>IEC Mains Lead Test</b> Test Duration Test	2s Continuity of all EB conductor, Insulation & Polarity
	General Specifications:	
	Mains power Battery Weight Size (L x W x D) Operating conditions Storage environment Environmental Protection Pollution degree Overvoltage category Altitude	230 VAC ±10%, 50Hz +/- 1Hz 120 VAC ±10%, 60Hz +/- 1Hz (USA model) 6 x 1.5V Alkaline AA 1.6 kg including batteries 270 x 110 x 75 mm / 10.5 x 4 x 3" 0°C - 40°C, 0-90% RH - NC -15°C - +60°C IP 40 2 CAT II 300V 2000m

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



See the **288**+ for yourself, request your FREE live online demonstration today at **rigelmedical.com/288plus**