



# 62353+

Accurate and fast electrical safety tester



**The 62353+ is a cost-effective automatic safety analyzer dedicated to the IEC 62353 standard for electrical safety testing of medical devices. Offers automatic test sequences, data storage, and PC download capabilities.**

The Rigel 62353+ provides an accurate and fast solution for testing in accordance with the IEC 62353 safety standard.

### Why buy the Rigel 62353+?

- > Storage for test records, and customizable sequences and codes
- > Test to IEC / EN 62353, NFPA-99, AS / NZS 3551 & more
- > A range of tests without the need for mains power, capable of conducting battery-powered insulation and earth/ground bond testing

### Key Features:

- > Light, handheld, battery operation
- > Fully customisable test sequences
- > Easy data entry and storage
- > Full, semi-automatic and manual testing

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



**RIGEL MEDICAL**  
TESTED, TRUSTED... WORLDWIDE.

See the **62353+** for yourself, request your FREE live online demonstration today at [rigelmedical.com/62353plus](http://rigelmedical.com/62353plus)



**What's in the box?**

- > Calibration certificate
- > Carrying case
- > Earth bond test probe with clip
- > Earth bond clip lead
- > 2-way patient applied part lead
- > Detachable 2-meter mains cable

**Optional Accessories:**

- > Med-eBase software (383A910)
- > RS232 download cable (331A952)
- > Single applied part leakage lead (331A953)

**Technical Specification:**

**Earth Continuity**

Pre-pulse	65-25A peak current, (0.1 to 0.8Ω respectively)
Pulse shape	Exponential decay
Decay time	200 550µs to 5% of peak current (0.1 to 0.8Ω respectively) using 'zero' lead function
Method 2 wire technique	>+200mA -200mA DC into 2 ohms
Test Current	4-24V rms o/c (6V for IEC 60601 tests)
Max Test Voltage	0.001 0.999 ohms @ 0.001 ohms resolution
Measuring Range (low range)	1.00 9.99 ohms @ 0.01 ohms resolution
Measuring Range (mid range)	10.0 - 19.9 ohms @ 0.1 ohms resolution
Measuring Range (high range)	± 3% of reading + 10 m ohms
Accuracy	

**Insulation Resistance**

Measurement	EUT to Earth / Ground, EUT to AP, AP to Ground
Voltage	50, 100, 250 & 500 V DC @ 1mA
Range (low range) @ 50V DC	0.01Mohms - 10Mohms
Range (low range) @ Above 50V DC	0.01Mohms - 20Mohms
Accuracy (low range)	± 5% of reading + 2 counts
Range (high range) @ 500V DC	20Mohms 100Mohms
Range (high range) @ 250V DC	20Mohms 50Mohms
Accuracy (high range)	±10% +2 counts
Resolution	0.01Mohms

**Direct Leakage Measurement**

Measuring Range	4µA to 9999µA
Accuracy	± 5% or reading +2 counts
Mains on A.P. voltage	F-type only @ 110% of mains
Measuring Device	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 Leakage Measurement**

Measuring Range	75µA to 9999µA
Accuracy	±5% of reading + 5 counts
Measurement / display resolution	1µA
Measurement Type	True RMS
Measuring Device	frequency response characteristics to IEC 60601-1

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



**RIGEL MEDICAL**  
TESTED, TRUSTED... WORLDWIDE.

See the **62353+** for yourself, request your FREE live online demonstration today at [rigelmedical.com/62353plus](http://rigelmedical.com/62353plus)



**Service and Warranty**

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

[rigelmedical.com/register](http://rigelmedical.com/register)

**Technical Specification (Continued):**

**Alternative Leakage Measurements**

Test Voltage	250V at mains frequency
Test Current	3.5 mA current limited
Measurement Range	4µA to 9999µA
Measurement Resolution	1µA
Measurement Accuracy	±5% of reading + 2 counts
Measurement Type	True RMS
Measuring Device	As per IEC 60601-1

**Power Measurement**

Method	VA rating
Range	0.1KVA 4KVA
Accuracy	±10% + 2 counts

**Mains Outlet Test**

Input Voltage Range	0-300V AC
Maximum Current	16A
Measures	L - E, N - E
Accuracy	± 5% of reading + 2 counts

**IEC Mains Lead Test**

Test Duration	2s
Test	Continuity of all EB conductor, Insulation & Polarity

**General Specifications:**

Mains power	230 VAC ±10%, 50Hz +/- 1Hz 120 VAC ±10%, 60Hz +/- 1Hz (USA model)
Battery	6 x 1.5V Alkaline AA
Weight	1.6 kg including batteries
Size (L x W x D)	270 x 110 x 75mm / 10.5 x 4 x 3"
Operating onditions	0°C - 40°C, 0-90% RH - NC
Storage Environment	-15°C - +60°C
Environmental Protection	IP 40
Pollution Degree	2
Overvoltage Category	CAT II 300V
Altitude	2000m

Rev 2

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



**RIGEL MEDICAL**  
TESTED, TRUSTED... WORLDWIDE.

See the **62353+** for yourself, request your FREE live online demonstration today at [rigelmedical.com/62353plus](http://rigelmedical.com/62353plus)