

# RIGEL 377

High Performance Electrosurgical Analyser



## Key Features:

- **Fully compliant with IEC 60601-2-2**  
One instrument for full compliance testing offering peace of mind
- **Accurate and Safe**  
Utilising full 10kV isolation on all measuring systems
- **Multiple Measuring Devices**  
For simpler user test configurations, benefiting speed and ease-of-use
- **High Frequency Leakage**  
Easy to connect with onscreen help for each configuration
- **Power distribution curves**  
Variable load with full 10kV isolation from 10 to 5100Ω in 10Ω steps – Accurate, fast, and flexible
- **Remote Electrode Monitoring testing**  
Using electronic potentiometer range upto 500Ω in 0.5 Ω steps with high and low alarms
- **Stand-alone**  
Not relying on PC or laptop, direct print facility via bluetooth
- **Automatic and manual test sequences**  
For fast and effective (repeat) testing
- **Stylish and rugged enclosure**  
Small footprint ideal for in-situ testing
- **Graphic colour user interface**  
For fast and easy navigation and connection to DUT
- **Future upgrade ready**  
Download future upgrades from the web into your tester
- **Prepared for PPM protocols**  
Configured for automatic performance testing of a variety of parameters

## Applications:

- To verify the correct performance of Electrosurgical devices during:
  - a. Routine testing
  - b. Type testing
  - c. Production line testing
- Unique training tool for testing on Electrosurgical devices

Rigel Medical has introduced a new high performance Electrosurgical Analyser with the emphasis on speed and ease of testing all modern day Electrosurgical devices.

The new Rigel 377 utilises a new approach to measuring the high frequency leakage, power distribution and remote plate security testing, ensuring high accuracy and the widest range of built-in resistors. Full colour screen and rotary ensure navigation make the Rigel 377 easy to operate and can provide step by step help to ensure the correct connection to the device under test.

The new Rigel 377 incorporates a range of custom settings that include a variety of test sequences and power distribution curves which make testing fast, easy and accurate.

Utilising the large full colour display, built-in memory and data management facilities, the Rigel 377 is the first fully stand-alone diathermy tester that can offer true user friendly operation and operator safety. The large array of internal resistors, ranging from 10-5100Ω in 10Ω steps provide not only the most accurate and detailed power curves, the Rigel 377 also advocates safe working practise by providing all necessary resistors within the enclosure.

The remote electrode monitoring test offers a unique isolated and electronically driven potentiometer to provide accurate and fast testing of alarms.

In addition, the Bluetooth-enabled technology allows the wireless connectivity of the tester with PCs and other accessory equipment for fast and convenient downloading of performance data and the uploading of manufacturers' power curves and manufacturer specific test programs.

Other special features of the Rigel 377 include in-built graphics to display connection diagrams, program settings, power curves, alarm settings, data management and data analyses.



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## 377 SPECIFICATIONS

### Specification

Power measurement	True RMS value of applied waveform
Power rating	0 – 500W (RMS)
Duty cycle	100% 0-250W, 50% >250W
Accuracy	±1W or 5% of value
Voltage (peak)	0 – 10KV (Peak) – Closed load only
Accuracy	±10% of value. Measurement is taken between the active and dispersive electrodes with closed load only.
Voltage (RMS)	0 - 500V
Accuracy	±2V or 2% of value
Current	0 – 2200mA
Accuracy	±10mA or 2% of value
Crest factor	1.4 – 20 (Vpeak / V RMS) The higher of the two peak voltage measurements is used for calculation

### RMS Bandwidth

Instrumentation only	30 Hz to 10 MHz (-3 dB)
With loads:	30 Hz to 2.5 MHz (-3 dB)
Variable loads	10 – 5100Ω, steps @ 10Ω (510 steps)
Accuracy	1% of R
Load array	Ceramic Resistors (Non inductive)
Measurement delay	Foot switch delay selectable between 200 – 5000mS (10mSec resolution)

### RF Leakage (High Frequency Leakage)

Active	From active part to earth
Passive	From plate – receptacle – to earth
Load	Variable see Power Measurement Fixed 2 x 200Ω / 250 Watt each

### Remote Electrode Monitoring

Range	0 - 500Ω, steps @ 0.5Ω steps Motor driven potentiometer
Alarm register	High and low, manual confirmation
Ranging	Manual or automatic

### Output Connectors

Remote foot switch control (CUT)	2 x 4 mm - yellow, Single relay contact
Remote foot switch control (COAG)	2 x 4 mm - blue, Single relay contact
High Frequency leakage	1 x 4 mm - black (common), 2 x 4 mm - red
Variable load output	2 x 4mm (for power measurement) Red = Active, Black = Plate
Fixed load input	3 x 4 mm (3 x Blue) (200Ω / 500W)
USB	PC Download / Future PC software
Oscilloscope output	5V/A, 100mA RF current minimum input

### Isolation

10kV Isolation between measurement device and enclosure

### Low Frequency Filter

100 Hz filter to avoid low-frequency disturbance or interference

### Storage and Recall

Memory	Approx 5,000 records
Output	CSV format
Waveform	

### General Specifications

Dimensions	370 X 300 X 204mm
Weight	7 Kg
Operating temperature	15 °C to 35 °C
Storage temperature	0 °C to 50 °C
Mains power	115/230 VAC; 48 to 66 Hz, 35 VA

### Product Includes:

- Mains lead
- Instruction Manual
- Application Disc
- BlueTooth USB adaptor
- Calibration certificate

### Other extras:

- Med-eBase Asset management software
- Barcode scanner
- Test lead set
- Protective travel case (by Peli case)

### How to Order:

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