Part of SEAWARD

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Innovating Together

### Need Help?

For technical issues please visit **rigelmedical.com** and view the Application Notes in the Downloads tab. Application Notes are regularly updated and will most likely cover any common issues.

For further assistance please contact your Rigel Medical supplier or use the following contact details to speak to a member of the Rigel Medical team:

### Sales and Delivery enquiries

Email: sales@rigelmedical.com Tel: +44 (0) 191 587 8730 Fax:+44 (0) 191 586 0227

### **Technical enquiries**

Email: support@rigelmedical.com Tel: +44 (0) 191 587 8701

### Service, Calibration and Repair

Email: service@calibrationhouse.com

Tel: +44 (0) 191 587 8739 Fax: +44 (0) 191 518 4666

# Remember to activate your 2 year warranty\* by registering your Rigel 288+ with Rigel Medical

Go to rigelmedical.com/register-product

\*Terms and Conditions apply. See website for details.

Rev 1.2 Part No. 406A557



# Rigel 288+ Electrical Safety Analyser

Quick Start Guide



immediately.

If any items are missing on receipt of your new unit, please contact your equipment supplier

NOTICE

- After long periods of storage under adverse environmental conditions
  - If the instrument does not function
  - If the instrument or leads show any sign of damage

It must be assumed that safe operation is no longer possible:

of electric shock.

Do not connect any probe combination to the maximum permitted voltage of 30 V AC/DC with respect to earth potential when performing non-power tests. Danger

Warning - during many of the leakage tests the PROTECTIVE EARTH CONDUCTOR to the appliance under test is interrupted. For this reason additional means of protection are required in order to comply with the relevant safety standards. For EN60601-1 leakage tests, it is recommended that this additional protection is in the form of an isolation transformer, with an isolated reference ground, used to power the entire system.

....

This symbol indicates that the operating instructions must be adhered to in order to avoid danger.

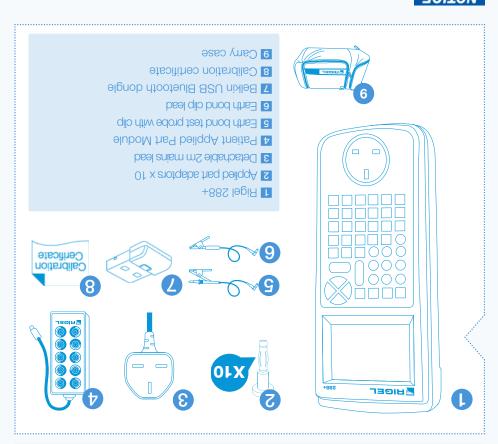
Warning of electrical danger! Indicates instructions must be followed to avoid danger to persons.

# Warnings and Cautions

/i Important, follow the documentation!

The following symbols are used throughout this Rigel Quick Start Guide.

User notes

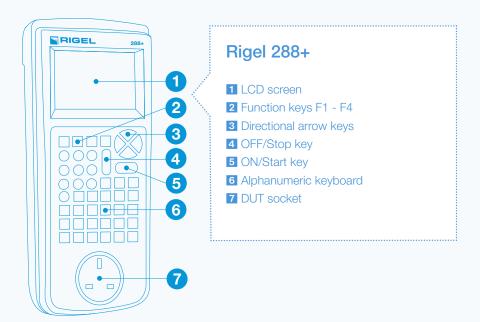


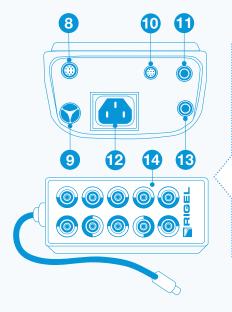
### What's in the box?

Welcome to your new Rigel 288+ Hand-Held Electrical Safety Analyser. This quick start guide tells you how to set up your Rigel 288+ and make use of its key features. Once you are up and testing, you can learn more about the full range of features available on our website www.rigelmedical.com/288+

Introduction

# Getting to know your Rigel 288+





### **Rear Connection Panel**

- 8 10-way patient Applied Part adaptor box connection
- 9 Mains power connections
- 10 RS-232 lead socket
- 11 Auxiliary earth bond socket
- 12 IEC lead test socket
- 13 Earth bond probe socket
- 14 10 way Applied Part Adaptor box

# **Getting started**

In this section we will identify some of the basic functions of the Rigel 288+ and how to get you started.



### Switch on

Turn on your Rigel 288+ by pressing and holding the green **ON** button **O** until you hear a 'beep' and the Rigel splash screen appears

## Perform electrical safety tests

### Launch a test in Automatic Mode

Ensure Equipment Under Test (EUT) is plugged into DUT socket and any applied parts are connected to the Applied Part module.

Select for the main menu and choose Auto Mode





Enter the Asset ID then choose the test standard and whether to run the test in semi or



Select  $\uparrow$  for the applied parts setup and  $\varnothing$  to edit.

For safety reasons, the Applied Part configuration will revert to 10 CF after the unit has been switched off.

# Unique use of icons

The Rigel 288+ features a high resolution graphic backlit display which not only provides highly visible and easy to follow menu structures but also allows the user to operate the tester and the intuitive icons speed up test routines.

### Rigel 288+ icon key



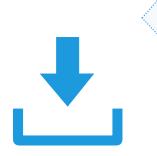
### Instruction manual

### **Instruction Manual**

This Quick Guide is designed to be used in conjunction with the full Rigel 288+ Instruction Manual.

The Rigel 288+ Electrical Safety Analyser Instruction manual is available as a download from rigelmedical.com/rigel-downloads

The download section also includes a free 30 day trial for our asset management software, Med-eBase

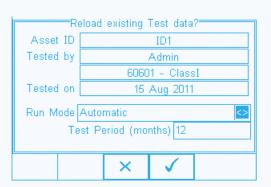


### Re-launch a previously saved test

Ensure EUT is plugged into DUT socket and any applied parts are connected to the Applied Part Module.

Select for the main menu and then choose Auto Mode

Enter the Asset ID of the EUT and press F4 to confirm you want to reload existing test data.



### Warnings during testing

To ensure the measurements are performed under valid and consistent conditions, the Rigel 288+ performs a number of self-checks upon power up and prior to a powered safety test (leakage test). A warning message may appear if these conditions are not

In addition, the Rigel 288+ is able to check for a valid test setup for measurements done using the direct method. In case a secondary earth path is detected, the Rigel 288+ will warn the user. It is not possible to continue as testing under such conditions will always result in a "zero" reading due to the low Ohm resistance of the secondary earth path in comparison to the 1kOhm resistance of the body model used in the Rigel 288+.

