

Med-eBase Asset Management Software



rigelmedical.com

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Introduction

First of all, **thank you for choosing Rigel's Med**-eBase software as your product of choice. We trust this product meets your requirements however, as we value a close partnership with our clients, we welcome your feedback to improve features, usability and benefits to your organisation and that of others.

Med-eBase is a versatile database program aimed to centralise data from biomedical test equipment and in particular Rigel's electrical safety analysers, vital signs simulators and performance analysers.

Whether you prefer a local database or centralised network access, Med-eBase can be configured and adapted to suit any business criteria.

With Med-eBase you can now download your Rigel testers, analyse data by automatic comparison against previous results and create test protocols asset libraries. Use the scheduling and upload function to interrogate your database and configure your test devices for fast and effective retesting.

As Rigel's product range increases, regular product updates are expected and to ensure we can improve our products, do let us have your feedback. Please contact us at support@rigelmedical.com with your suggestions.

1. Installation

1.1. Installing Med-eBase

To install Med-eBase Asset Management software V2, you will need to meet the minimum system requirements listed below.

Hardware

- IBM compatible 1 GHz or higher processor
- 512 MB of RAM
- 350 MB available hard drive space
- Colour monitor with 32-bit colour capability
- CD ROM drive Software
- Windows XP SP2 or later, Windows 7, 8, 10, 11
- 32-bit/64-bit Operating System

Software

- Windows XP SP2 or later, Windows 7, 8, 10, 11
- 32-bit/64-bit Operating System

Note: (a) Med-eBase will need to be installed. and the licence activated. by an Administrator.

(b) make sure, before installing, Med-eBase ensure no other applications are running.

- 1. Insert the Med-eBase CD (if applicable) into your CD drive and the installation should begin automatically.
- 2. If Med-eBase does not automatically install, then open My Computer or Windows Explorer and view the CD drive. Locate and RUN the file setup.exe to begin the installation.
- 3. If you are using the installer package downloaded from the rigelmedical.com website, open the Rigel Med-eBase Installer .exe file to begin the installation from: <u>http://www.rigelmedical.com/rigel-downloads?id=Software%20Download</u>
- 4. Follow the onscreen instructions to complete the installation.

The language setting can be changed from the installation language once the software is fully installed.

Once the program is installed, a shortcut will be provided on your desktop. Double click the shortcut with your mouse to open Med-eBase V2.

Please refer to application note 0037 Installing Med-eBase onto a PC to aid in the installation process: <u>http://www.rigeImedical.com/downloads/0037-Installing-Med-eBase-on-PC.pdf</u>

1.2. Checking for Software Update

Med-eBase software has a built-in feature to automatically check for product updates and will notify the user when new features or versions are available.

The automatic update feature ensures that the user can benefit from the latest features and functions without having to actively search for new updates, giving you peace of mind.

To benefit from the automatic updates, the user must have an internet connection and Administrator rights on the PC. Updates can be checked manually by clicking on the HELP button in the tool bar and select "check for updates"

If an update is available, you will be informed. User confirmation is required prior to installation of the updates.

1.3. Windows 7 Operating Systems (or later)

Enhanced security settings in Windows 7 require the user to register the product as an Administrator. To do so, right click on the Med-eBase icon on the desktop and select Run as administrator. This will ensure that the license codes are written and stored in the Windows registry.

	Open Troubleshoot compatibility Open file location
1	Run as administrator
K	Scan for viruses
	Pin to Taskbar
	Unpin from Start Menu
	Restore previous versions
	Send to
	Cut
	Сору
	Create shortcut
	Delete
	Rename
	Properties

Please refer to application note 0032 Med-eBase V2 with Windows 7 for details of this process.

1.4. Med-eBase Licensing

When first running Med-eBase the licence activation screen will be displayed. Follow the on-screen instructions to activate the 30-day trial or full Med-eBase program.

The Full license of Med-eBase V2.6 Software comes with 1 license as standard. This license entitles 1 copy of Med-eBase to be installed on 1 PC with 1 device type unlocked either.

- Electrical Safety (Rigel 288/62353 / Rigel 288+/62353+)
- Sim range (Uni-Sim/BP-Sim/SP-Sim).
- Uni-Pulse (and Uni-Pulse 400)
- Uni-Therm (and ESA-377/377+)
- Multi-Flo

To activate other device types, an additional license must be purchased via your Rigel Medical supplier.

The 30-day Trial license allows the user full functionality of all device types for a period of 30 days from activation.

Note: The activation screens may look slightly different depending on the operating system

	d inside the M			er your serial nu	inder delow,	your senai num	ber can
	-	- []	-				
🗌 Tri	al Med-eBase						
Alterr	natively to tria	l Med-eBas	e for 30 da	ays please checl	this box and	you'll automati	cally
	ocated a seria						

To activate a trial version of Med-eBase

Select the Trial Med-eBase option on the initial activation wizard screen (shown above).

To activate a Full version of Med-eBase

To activate the full Med-eBase program, input the serial number provided on your copy of Med- eBase into the Serial field.

If you have this in electronic format, you can use the paste icon 🖭 to enter the Serial Number and then select NEXT.

If you do not have a serial number and have purchased a full license for Med-eBase please contact Support@rigeImedical.com indicating the Rigel device requiring Med-eBase, your company details and the purchase order number.

Activation continues from this point identically for both Trial and Full Med-eBase licenses and can be accessed via online or offline activation.

1.5. Online activation

Med-eBase is activated online by default. If an internet connection is not available select the Activate Offline option when prompted, and then select NEXT.

@ Med-eBase Licence Activation Wizard 🛛 🔹 🕅
Activation Method Whether you have purchased Med-eBase or want to evaluate it on a 30-day trial, Med- eBase must first be activated.
Activate Online
This option requires an Internet connection but is the fastest way to activate.
O Activate Offline
Use this option if you do not have a connection to the Internet.
< <u>Back</u> <u>N</u> ext > Cancel

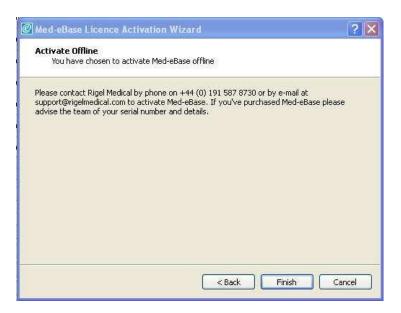
When continuing with Activate Online follow the on-screen instructions.

The activation wizard will test the internet connection to the activation server.

Note: Your IT department may need to assist you with any proxy setting issues

1.6. Activate Offline

If Activate Offline is selected please contact Rigel Medical, indicating the Rigel device requiring Med-eBase, your company details and if applicable the Main Serial Number.



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Once the serial number and activation key have been entered select NEXT. Enter your contact and company details.

Title:	🔊	🖌 * Name: 🚺]
Job Title:	-			

	company details.		
Company Name:	[*
	etails will appear on all ce be changed after a succes	rtificates. Please ensure that the company nar ssful activation.	me is entered
Address:		* Tel:	
		Tel. Ext:	
Town/City:		* Fax:	
County:		* Email:	
Country:	England	*	
Postcode / ZIP Code:		*	
* Denotes a field that	is required		

Note: When providing contact details all required fields must be completed with the minimum character values for each field shown in the table below. If the NEXT icon is greyed out this indicates that a field does not meet the minimum requirement.

Minimum Characters for Med-eBase Activation

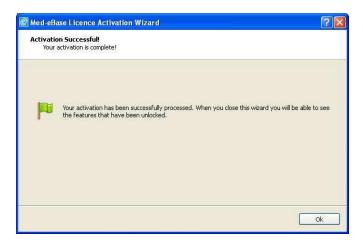
During activation the next button will only become available when all validation is satisfied: All required fields must be filled in

Field - Minimum Length Company Details Company Name - 6 Address - 2 Country - 2 Post Code - 5 Email Address - @ and .XX (2 characters) Contact Details Contact Name - 4

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Note: If the postcode does not meet the minimum requirement or the location does not have a postcode, please enter 5 values

Once completed select NEXT to finalise the activation process and then select OK.



For a Trial Version

Once the activation is complete you will be sent a confirmation email with the Main Serial number and Activation Key which you will need to enter into the Med-eBase screen shown below. You will have access to all device types and functionality of Med-eBase for 30 days from the date of activation.

A copy button allows users to copy their serial number and activation key(s) and paste them into the required fields from the confirmation email rather than copying and possibly failing to type the correct key.

@ Activate Med-eBase	? 🔀
Serial Number	🛅 🛕 🖺 Deactivate
Activation Keys	
	Add
Activation Wizard	OK Cancel

For a Full Version

You will have received one activation key for a Rigel device (e.g., Rigel 288). If you have purchased additional activation keys which unlock other Rigel device types then the Additional Activation Key(s) can be entered into the lower field under the activation key field, one at a time and then select ADD to activate each feature. The activated features will be listed in the large text box.

A copy button allows users to copy their serial number and activation key(s) and paste them into the required fields from the confirmation email rather than copying and possibly failing to type the correct key.

Rctivate Med-eBase	?
- Serial Number	
Deactive Contraction of the Cont	ate
Activation Keys	
Rigel SiM range	
K	>
Add	
ОК Са	ncel

2. Getting Started

2.1. Creating a new Med-eBase Database

Select File, Connect to Database using the top menu.

File	Edit Tools Help				
ø	Connect to Database				
	Import Med-eBase V1 Database Export Database	S			
	Exit application				
	Office Workshon	3			

To create a local database using SQLite select New, and then choose a name for your new database with the extension .db and select Save.

SQLite Database	MS SQL (ODBC)	
SQLite databases a	re saved as files and do not require	e a database server.
New Cr	eate a new SQLite Database	
	een an existing SQLite Database	

Med-eBase allows a choice of database formats:

- Local which is fast, has no server, single user access and no concurrency issues
- Remote which has all the data stored in a centralised location for access by many people concurrently and can be used with other database tools.

An Example database is held within the install which demonstrates an example of how a database can look and function. This feature lets the user see how the assets are laid out and how test results and certificate look before creating their own database.

2.2. Connecting to an existing Med-eBase Database

Select File, Connect to Database using the top menu.

File	Edit Tools Help		
6	Connect to Database		
	Import Med-eBase V1 Databa Export Database	se	s
	Exit application		
	Office Workshop	3	

Select Open to open an existing SQLite Database. Locate the .db file and select Open.

SQLite Database	MS SQL (ODBC)	
SQLite <mark>databases</mark> a	ire saved as files and do not require a database	e server.
New Cr	eate a new SQUite Database	
	pen an existing SQLite Database	

To connect to an MS SQL Server over Open Database Connectivity (ODBC), click on the MS SQL (ODBC) tab. The connection details will be issued by your network administrator.

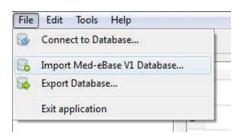
SQLite Database	MS SQL (ODBC)	
Connect to a Micro	soft SQL Server over ODBC.	
Server:	1	¥
Server: Database Name: (•	▼ Populate
	Use Windows NT Integrated Security	▼ Populate
		▼ Populate
Database Name: (Populate

2.3. Importing a Med-eBase Version 1 Database

To convert a Version 1 database into Version 2.4. (or above) either SQL Express or SQL Server is required. Using either SQL Express or SQL Server the .mdf file on the V1 Database for Med-eBase must be mounted.

When this has been done Med-eBase will then know what the .mdf file is and be able to read it as a database file:

- 1. Mount .mdf in SQL Express / Server
- 2. Start Med-eBase.
- 3. Create a new SQLite database or open an existing SQLite database.
- 4. Select File and then Import Med-eBase V1 Database



5. Browse for the .mdf file of the V1 database.

	Brows
Import	
Assets	Results

- 6. Click on OK and the import process will start.
- 7. The Med-eBase V1 Database data will be imported into the Med-eBase V2 Database.

Note: SQL Express or SQL Server is required on the local computer to allow importing of a Med-eBase V1 Database. The user may need the assistance of their IT department during this import.

kaesta d	11 1	Status.	Name	Description	Last Test	Retest Date		54 11
Exemple Database.db	1	14	125876	5 Lead ECG	11/92/2014	11/08/2014		(internet internet in
	2	P	65807	3 Lead ECG	20/09/2013	20/03/2014		
Micrishop	3	14	45287		25,09/2013	25/03/2014		
- Theatre departm	4	×	51.47	18	21/20/2013	21/04/2034	(2)	
Cient 1	5	P	1005		12/02/2014	32/02/2015	(2)	
Wiend 1	6	pu .	M17	COFIE	19/11/2013	19/11/2013		
Mired 2	7	×	13786	MONITER	27/11/2013	27/TL/2013		_
Mind 4	8	in	25894	MONITER	27/11/2013	27/11/2013		_
Mard 1	9	1	238741	MONITER	27/11/2013	27/11/2014		_
Ward 2	10	P	411412	ESV	29/07/2013	29/04/2004		_
EBME B EMBE	11	14	01.234	ESV.	30/07/2013	30/04/2014		_
Merkshop	12	pu -	12548	ESU	30/07/2013	30/04/2034		_
A Stal	13	×	095123	ESU/	29/98/2013	29/05/2004		
WARD S	34	0	defitiz		08/01/2014	06/01/2015		_
· Recycled	15	14	125780		26/11/2013	26/05/2034		-
	Auser Der	citi i	et Danarius Raminet Turtus 16	and the summer of the				
(1)	Deta		and I among the					
		sarriana:				Same/Hore		
	1	Seargtion				Haufscharten		
		Clerk				a Pitział		
	1.02	Shahama:				+ SeverDek		
	has	itibo Nemai. 📋				+] Episement Class; [-		
	Text	Period				AP Configuration		
		36e	Haat Period Strendtral) () [] [] [] []	ent Testi				980
					(3	3)		

2.4. Navigating Med-eBase

The main screen explained:

- 1. The Browse Assets view with the Browse tab selected, the tree view shows the Assets in the selected database. Assets are organised by Client, Site and Location. The Search tab provides a way to only display assets based on a certain criteria such as Name, Description, Serial No. and Re-test Date.
- 2. The Asset Table view this view displays all of the assets under a particular heading in the tree view.
- 3. The Asset Details view this shows the selected asset details, including test results, applied part set-up and test sequences.

2.5. Data Structure

The Med-eBase database is structured around the owner, Known as the Client and the physical location of Assets which is divided into Site & Location.

File Edit Tools Help						
😼 🔒 😹 👪 💆 🚺 🗸	0					
Prowse Assets 8		Status	Name	Description	Last Test	Retest Date
 Example Database.db Broomfield 	1	P	25456		15/01/2014	15/07/2014
EBME	2	P	584563		15/01/2014	15/07/2014
Morkshop	3		47851	PROBE 123	15/01/2014	15/07/2014
 Image: Image: Ima	4	P	56		10/02/2014	10/02/2015
 Hospital 1 Hospital 2 	5		257	PROBE 123	05/02/2014	05/08/2014
Hospital 3	6	P	2536	PROBE 123	10/02/2014	10/08/2014
HOSPITAL 12 Site 1	7	P	125	PROBE 123	10/02/2014	10/08/2014
Recycled	8	P	236	PROBE 123	10/02/2014	10/08/2014
	9	×	3525	PROBE 123	10/02/2014	10/08/2014
	10	P	01928	Infusion pump	12/03/2014	12/12/2014
	11		Q123	Infusion device	01/05/2014	

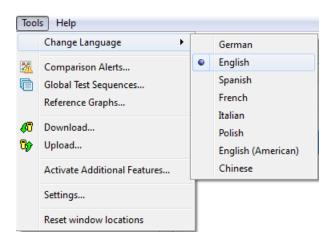
A site may include a number of different locations, such as individual wards within a hospital or departments within a company. By selecting a Site or Location from within the Browse Assets tree, shown above on the left, the Asset Table, on the right, displays all assets in the selected site or location.

The client's name, sites and locations either comes directly from the information entered into the Rigel safety testers or can be manually entering into Med-eBase and edited by selecting the asset and entering new details.

2.6. Language Settings

Med-eBase comes with a number of language options.

To change the language, select Tools, Change Language and select the required language.



Note: There may be different language options, than shown above, during the continuous improvement and development of Med-eBase.

2.7. Activate Additional Devices

To access the licence screens at a later date, such as to enable other device types after the initial activation, once in the Med-eBase software select Tools and then Activate Additional Features...

Tool	s Help
	Change Language
2	Comparison Alerts
Ē	Global Test Sequences
	Reference Graphs
<i>4</i> 7	Download
₿	Upload
	Activate Additional Features
	Settings
	Reset window locations

To install your Additional Activation Key, enter this in the bottom box and select ADD. This will allow access to the features associated with that device type.

A copy button allows users to copy their additional activation key(s) and paste them into the required fields.

2.8. Creating a new Asset

New assets can be created by clicking the Add New Asset button 🧐 on the top righthand side of the main screen. This will create a blank asset on the Asset Details panel.

Asset Details						1
Asset Details	Test Results	Applied Parts	Test Sequence			
Details						
Asset Name	:				Serial No.:	
Description	:				Manufacturer:	•
Client	:			•	Model:	•
Site Name	:			-	Service Code:	•
Location Name	:			-	Equipment Class:	-
Test Period					AP Configuration	n
R	e-test Period (mo	inths): 0 🌲	Next Test:			View

The maximum length of each field is 25 characters.

Asset Name is a mandatory field.

Each field's dropdown list holds the existing entries associated with this field. To save the entries click Apply or discard the entries by clicking Reset.

3. Asset Details

The Asset details can be obtained by clicking on the Asset in the Asset Table view. The following information is displayed in the Asset Details panel.

Asset Name: 55807 Senal No.: 102053 Desription: 3 Lead EDG Manufacturer: DATEX DHMEDA	
	•
Client: Client 1 Model: S5	×
Site Name: Hospital 1 v Service Code:	•
Location Name: Ward 4 Equipment Class: Class II	•]
est Period AP Configuration	
Re-test Period (months): 6 💿 Next Test: 20/03/2014 [30F]	View

The following tabs are available in the Asset Details view:

- Asset Details
- Test Results
- Applied Part configuration (Electrical Safety)
- Test Sequence

Asset Details - This shows the basic description of the Asset. The details entered here make it easier to search for the Asset from a larger database.

Test Results - This shows the test result history for that Asset. From this menu it is also possible to print test certificates for any of the previous tests.

Applied Parts - This shows the Applied Part configuration used during the testing of this Asset for electrical safety.

Test Sequence - This shows the test sequence and individual test results for this Asset.

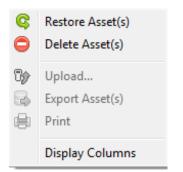
3.1. Context Menus

All icons have a right mouse button action. The following actions can be initiated from the right mouse button:

The Asset context menu, from any Asset in the Asset Table view, has the following options:



The Asset context menu from an Asset in the Recycled folder has the following menu options:



The context menu from Clients, Sites and Locations in the Browse Assets tree view only has the Delete option.



3.2. Deleting Clients, Sites, Locations or Assets

Clients, Sites, Locations and Assets may be deleted by right-mouse clicking the relevant item and selecting Delete, selecting Edit, Delete Asset(s) from the context menu (above), or by selecting the Delete icon on the right-hand tool bar.

All deleted assets are placed in the Recycled folder on the Browse Assets tree and can be displayed by selecting this folder. These assets can be restored by right clicking on the relevant Asset(s) and selecting Restore Assets. Similarly, they can be permanently deleted by selecting Delete Assets from this menu.

By holding the CTRL key, multiple assets may be selected and manipulated simultaneously in the Asset Table view.

Once the asset is permanently removed from the recycled folder the asset ID, Serial Number etc. can be reused on another Asset.

3.3. Med-eBase V2 Settings

To open the Med-eBase V2 Settings menu, select Tools, Settings.

- File Settings Tick the Use Native File Dialogs checkbox to enable the use of standard Windows dialog boxes for opening and saving files.
- Log Settings In the event of a database issue, these options will enable extra information to be included in the debug file for diagnostic purposes. Use of this option will be advised by the Rigel Support team.

• Restore Factory Settings - This will remove the Med-eBase registry settings and will return Med-eBase to its initial state. Window size and position and last opened database will all be reset.

3.4. Merging Assets

Conducting tests on one asset on multiple instrument tester types i.e., defibrillator will have an electrical safety test using the Rigel 288 (+) and then performance testing using the Uni-Pulse.

If the two set of tests have the same asset ID and same asset trace variable information when downloaded into Med-eBase the tests will merge into one asset as indicated in the image below.

Example Databasedb	and the second second	Status	Name	Description	Last Test	Retest Date	94
Cosmple Datapare.go	2	1	65907	3 Lead ECG	20/99/2013	20/03/2014	1
	3	1	45.287		25/09/2013	25/03/2004	
	4	×	51.47	18	23/10/2003	21/04/2014	-
	5	pu -	ðíðis		12/02/2014	12/92/2005	
	8	14	adlT	CEFIB	19/11/2013	19/11/2013	
	7	20	15780	MONITER	27/11/2013	27/11/2013	
	.8	1	25894	MONITER	27/11/2013	27/LL/2013	
	9	in the	258741	MONITER	27/11/2013	27/11/2014	
	10	144	011012	ESN)	29/07/2013	29/04/2014	
	11	PP -	01234	ESU	30/07/2013	30/94/2914	
	3.2	1940	12548	ESU	30/07/2003	30/04/2014	
	13	×	085123	ESU	29/08/2013	29/05/2034	
	24	14	and by		OR GEODIA	locations -	
	35	100	125786		20/11/2013	26/05/2014	
	3.6	伸	25450		15/01/2014	15/07/2014	8
	Asset Det	talit'					
	Arast	Dutala Te	st Results Applied Parts Tea	Securita			
	Test	Renults					
		Date Test	received and wear of the contract of the contr				Resida
	and a	08.01/2014		>			Frint Certificate
	3	06/01/2014	Rigel 288/62358	a t:			Text Septeme.
							Applied Parts
							Delete

4. Data Transfer

4.1. Downloading Data from a Rigel Device

The method to download data from the Rigel devices is dependent on which Rigel product you are using. The methods are divided for:

- Electrical Safety Analysers (288 (+), 62353 (+)), and Vital Signs Simulators (Uni- Sim, BP Sim and SP-Sim)
- Performance Analyser (Uni-Pulse, Uni-Pulse 400)
- Performance Analysers (377, 377+, Uni-Therm, Uni-Pulse and Multi-Flo)

Please refer to instrument manuals and / or additional application notes for help to aid in the download process.

4.1.1. Electrical Safety and Vital Sign Simulators

Electrical Safety (288 (+) and 62353 (+)) and Vital Sign Simulators (Uni-Sim, BP-Sim and SP-Sim) use the same method of downloading data from the Rigel devices into Med-eBase.

Results

Downloads can be selected from the Download option in the Tools menu or by using the Download icon on the taskbar.



After selecting the Download option, the Download from Tester dialogue box will be displayed.

Instrument Type		
Rigel 288/62353		
Baud Rate		
57600		
COM Port		
Standard Serial ov	ver Bluetooth	link (COM5) 🔻
Concernation of the second second second		

Select the relevant Instrument Type from the drop-down list.

Ensure you have the correct Baud Rate (the default is 57600) and COM Port selected. The COM port is defined by your serial or Bluetooth connection. For a standard data cable connection (RS232) this will usually be COM1.

If you do not see the correct COM Port displayed in the drop-down menu, select Re-Scan COM Ports to refresh the available COM Port list.

Select OK to begin the download from the software side.

Downloading	
, occurring the	
Estimated time remaining: Unknown	Estimated finish time: Unknown

The software will stay in the download screen while the Rigel device is set up to transfer data.

The download is initiated by starting the download on the Rigel tester. Instructions on how to do this will be included in the Instruction Manual for each Rigel device.

You will need to enter the Data Menu and select download to PC and the format is Rigel -SSS. Once the download has started, a progress bar will indicate downloading on MedeBase.

Upon completion of the download, the download window will close, and the Download Report will be displayed on Med-eBase.

2 Downloading	? ×
Received packet (id:11)	
Estimated time remaining: 2s	Estimated finish time: 10:19:41
	36% Abort
2 Download Report	2 ×
	2 assets downloaded with status 'Pass'
×	0 assets downloaded with status 'Fail'
	0 assets downloaded with status 'Info'
	3 assets downloaded with no test results
	15 assets downloaded with no new test results
<u>_</u>	0 assets downloaded with status 'Alert'
	0 global test sequences downloaded
	ОК

Note: For detailed instructions on how to connect your Rigel device for Data Transfer, please see the instruction manual or application note for your device.

Test Sequences

Test Sequence can be created on Rigel devices and then downloaded into the Med-eBase software as a global test sequence.

Download can be started from the Download option in the Tools menu or by using the Download icon on the taskbar.



After selecting the Download option, the Download from Tester dialogue box will be displayed. Select the relevant Instrument Type from the drop-down list.

Note: For detailed instructions on how to connect your Rigel device for Data Transfer, please see the instrument instruction manual or application note for your device.

Instrument Type	
Rigel 288/62353	
Baud Rate	
57600	-
COM Port	
Standard Serial ov	ver Bluetooth link (COM5) 🔹

Select the relevant Instrument Type from the drop-down list.

Ensure you have the correct Baud Rate (the default is 57600) and COM Port selected. The COM port is defined by your serial or Bluetooth connection. For a standard data cable connection (RS232) this will usually be COM1.

If you do not see the correct COM Port displayed in the drop-down menu, select Re-Scan COM Ports to refresh the available COM Port list.

Select OK to begin the download from the software side.

Downloading	? ×
Processing	
Estimated time remaining: Unknown	Estimated finish time: Unknown

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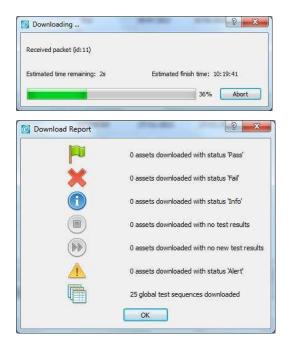
The software will stay in the download screen while the Rigel device is set up to transfer data.

The download is initiated by starting the download on the Rigel tester. Instructions on how to do this will be included in the Instruction Manual or application note for each Rigel device.

You will need to enter the Data Menu and select download to PC to the format as Test Sequences.

Once the download has started, a progress bar will indicate downloading on Med-eBase.

Upon completion of the download, the download window will close, and the Download Report will be displayed on Med-eBase.



The downloaded sequences can be viewed in Med-eBase in Tools and then Global Test Sequence or the icon on the top left-hand side of the Med-eBase screen.

From this menu the test sequence can be viewed, edited, and uploaded back into a Rigel Performance analyser (does not work with all analysers, refer to manuals / application notes).

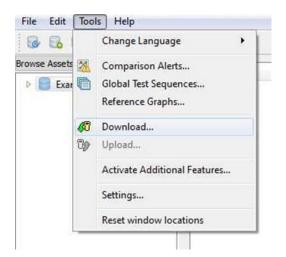
RIGEL MEDICAL

Name	Class	Instrument Type	· New
1 60601 - Classi	Class I	Rigel 288/62353	Edit
2 60601 - ClassII	Class II	Rigel 288/62353	Delete
3 62353 - Classl - Direct	Class I	Rigel 288/62353	Upload.
4 62353 - Classl - Diff	Class I	Rigel 288/62353	Duplicat
5 62353 - Classi - Alt	Class I	Rigel 288/62353	
6 62353 - Classil - Direct	Class II	Rigel 288/62353	
7 62353 - ClassII - Diff	Class II	Rigel 288/62353	E
8 62353 - ClassII - Alt	Class II	Rigel 288/62353	
9 0701/0702 - Classl - Sub	Class I	Rigel 288/62353	
10 0701/0702 - ClassII - Sub	Class II	Rigel 288/62353	
11 0701/0702 - Classl - Diff	Class I	Rigel 288/62353	
12 0701/0702 - ClassII -Diff	Class II	Rigel 288/62353	
13 61010 CLASS 1	Class I	Rigel 288/62353	

Please refer to application note 0038 Downloading from Rigel devices to Med-eBase to aid in the download process.

4.1.2. Performance Analyser Uni-Pulse

Downloading Results can be started from the Download option in the Tools menu or by using the *contemposities* icon on the taskbar.



After selecting the Download option, the Download from Tester dialogue box will be displayed.

Instrument Type	Instrument Type	
Rigel Uni-Pulse	Rigel Uni-Pulse	-
Rigel 288/62353 Rigel BP-SiM Rigel SP-SiM	Baud Rate	
Rigel UNI-SiM Rigel ESA-377	57600	•
Rigel ESA-377+ Rigel Uni-Therm	COM Port	
Rigel Uni-Pulse Communications Port (COM1)	USB Serial Port (COM7)	-
	Standard Serial over Bluetooth link (COM18) Standard Serial over Bluetooth link (COM14) Standard Serial over Bluetooth link (COM17)	^
	USB Serial Port (COM7) Communications Port (COM1)	ш
	Standard Serial over Bluetooth link (COM21) Standard Serial over Bluetooth link (COM4)	
	Standard Serial over Bluetooth link (COM19) Standard Serial over Bluetooth link (COM12)	
	Standard Serial over Bluetooth link (COM20)	100

Select the relevant Instrument Type from the drop-down list.

Ensure you have the correct Baud Rate (the default is 57600) and COM Port selected. For the Uni-Pulse the COM port is indicated as a USB Serial Port connection.

If you do not see the correct COM Port displayed in the drop-down menu, select Re-Scan COM Ports to refresh the available COM Port list.

Select OK to begin the download from the software side.

The software will stay in the download screen while the Rigel device is set up to transfer data.

The download is initiated by starting the download on the Rigel tester. Instructions on how to do this will be included in the Instruction Manual for each Rigel device.

You will need to enter the Data Menu and search for the required results. Select Download to PC and then either Download selected item? or Download all search items?

Note: Med-eBase Data Transfer can only be conducted via USB for the Uni-Pulse.

During the download a progress bar appears on both Med-eBase and the Uni-Pulse.

Abort

When the download is complete and summary box appears on Med-eBase to enable the user to view what has been downloaded successfully.



Note: For detailed instructions on how to connect your Rigel device for Data Transfer, please see the instruction manual. The download is always initiated by the Rigel tester.

Also see application note 0045 Downloading from the Rigel Uni-Pulse to Med-eBase to aid in the download process.

4.1.3. Performance Analyser Uni-Pulse 400

The download is initiated by Med-eBase; however, the Uni-Pulse 400 needs to be set-up first. Instructions on how to do this will be included in the Instruction Manual and / or corresponding Application note for each Rigel device.

On the instrument, you will need to enter the Data Menu (Select data) and search for the

required results. Select the Download to PC icon and then either Download selected items? or Download all search items? The Uni-Pulse 400 will display a Sending screen until the Med-eBase begins the download.

Note: Med-eBase Data Transfer can only be conducted via USB for the Uni-Pulse 400.

Downloading results can be started from the Download option in the Tools menu or by using the icon on the taskbar.

lit [Tool	s Help
6		Change Language
sets	24	Comparison Alerts
kate		Global Test Sequences
		Reference Graphs
	6 7	Download
1	7	Upload
		Activate Additional Features
		Settings
		Reset window locations

After selecting the Download option, the Download from Tester dialogue box will be displayed.

🕫 Download from Tester	X Download from Tester
Instrument Type Rigel Uni-Pulse 400 Rigel 288+/62353+ Rigel SP-SIM Rigel UNI-SIM Rigel UNI-SIM Rigel ESA-377 Rigel ESA-377+ Rigel Uni-Pulse Rigel Uni-Pulse Rigel Uni-Pulse Rigel Uni-Pulse 400	▼ Instrument Type Rigel Uni-Pulse 400 ▼ COM Port USB Serial Port (COM23) ▼ Set UP400 Clock using computer time
Re-scan COM Ports OK Cane	Re-scan COM Ports OK Cancel

Select the relevant Instrument Type (Rigel Uni-Pulse 400) from the drop-down list.

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Ensure you have the correct COM Port selected. For the Uni-Pulse 400 the COM port is indicated as a USB Serial Port connection.

If you do not see the correct COM Port displayed in the drop-down menu, select Re-Scan COM Ports to refresh the available COM Port list.

Note: the UP 400 Clock using computer time can be used to set the time on the Uni-Pulse 400 if required.

Select OK to begin the download from the instrument.

During the download a progress bar appears on both Med-eBase and the Uni-Pulse 400

@ UP400 Download Results	8 22
Processing	
Estimated time remaining: 1s	Estimated finish time: 09:29:09
	95% Abort

When the download is complete this is indicated on the Uni-Pulse 400 and Download Report appears on Med-eBase to enable the user to view what has been downloaded successfully and the status of these data.

② Download Report	8 22
P	3 assets downloaded with status 'Pass'
×	1 assets downloaded with status 'Fail'
	0 assets downloaded with status 'Info'
	0 assets downloaded with no test results
	0 assets downloaded with no new test results
<u>^</u>	0 assets downloaded with status 'Alert'
	0 global test sequences downloaded
	Ok Export

Note: For detailed instructions on how to connect your Rigel device for Data Transfer, please see the instruction manual.

Also see application note 0074 Downloading from the Rigel Uni-Pulse 400 to Med-eBase (version 2.6) to aid in the download process.

4.1.4. Performance Analysers Uni-Therm and Multi-Flo

To transfer data from the Uni-Therm and Multi-Flo to Med-eBase on the Rigel device go to Menu and then Data and Data Transfer. This will take the user to the Data Transfer Screen

Note: For detailed instructions on how to connect your Rigel device for Data Transfer, please see the instruction manual for that device.

In the Data Transfer Menu, the user must select which PORT for data transfer and the data format type using OPERATION required for the necessary data transfer.

OPERATION options are:

- Export Results
- Export Test Sequences
- Export CSV
- Import Results
- Import Test Sequences

PORT options are:

- USB Cable
- USB Memory Stick
- Bluetooth (Multi-Flo only)

Downloaded files can then be stored, transferred between Rigel devices of the same instrument type, PCs or to colleagues. It also is useful with any technical enquiries if the files can be sent with the enquiry.

<u>Results</u>

When downloading results into Med-eBase the Rigel device will act as a REMOVABLE DISC data storage device. The data file can be copied from the drive that appears in explorer or from the memory stick directly into Med-eBase.

Note: When using Med-eBase, the export of data will commence from the software once the Rigel device is in the TRANSFER READY state.

Start the download from the Rigel tester by pressing START F4. A Transfer Ready indication message appears on the Rigel unit with OK to select ONLY ONCE the transfer is complete from the PC.

Note: When using a USB memory stick the stick needs to be inserted into the Rigel device before selecting START F4 on the Data Transfer screen.



Download can be started from the Download option in the Tools menu or by using the Download icon on the taskbar.



After selecting the Download option, the Download from Tester dialogue box will be displayed. Chose the correct instrument type and then select the file transfer icon

R Download from Tester	🚯 Download from Tester
Instrument Type	Instrument Type
Rigel Uni-Therm 🔻	Rigel Multi-Flo 🔹
File Transfer	COM Port
	Standard Serial over Bluetooth link (COM9) 🔹
	Remote Mode Connect to COM port
	File Transfer
	Start File Transfer
OK Cancel	Rearran COM Parts
	Re-scan COM Ports Cancel

Then the user must select the removal disc which is associated with the Rigel tester (for example removal disk E:) to allow the test results to be transferred from the Uni-Therm or Multi-Flo.

When downloading files from the Rigel Uni-Therm or Multi-Flo the latest file will contain all previous Sequences stored on the Rigel device and therefore only the last file needs to be used when transferring files between the Rigel device and Med-eBase. Select the appropriate file which should be in a format:

Results_DATE_TIME.sss in Format DDMMYYY and hhmmss

Then select OK. The file name should appear in the file transfer window and then select OK to transfer into Med-eBase.

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Instrument Type		
Rigel Uni-Therm		•
File Transfer		
quences_1312201	3_110307.sss	

A download report will appear when the transfer is complete to indicate what has been transferred.

The downloaded results can be viewed in Med-eBase by looking for the Asset ID or date of test.



Note: If other tests e.g., electrical safety has been performed on the same device and downloaded into Med-eBase, the Performance analyser test results can be merged into the same Asset ID provided that the asset trace details are identical E.g. Only the Asset ID is entered into the Asset details window. See chapter 3 for further information.

Test Sequences

Test Sequence can be created on the Rigel devices and then downloaded into the MedeBase software as a global test sequence.

From the data transfer screen select Start and connect the USB memory stick or cable.

Note: For detailed instructions on how to connect your Rigel device for Data Transfer, please see the instruction manual for that device or corresponding application note. Download can be started from the Download option in the Tools menu or by using the Download icon on the taskbar.



After selecting the Download option, the Download from Tester dialogue box will be displayed. Chose the correct instrument type and then select the file transfer icon

🕼 Download from Tester	C Download from Tester
Instrument Type	Instrument Type
Rigel Uni-Therm 👻	Rigel Multi-Flo 🔻
File Transfer	COM Port
	Standard Serial over Bluetooth link (COM9) 🔻
	Remote Mode Connect to COM port
	File Transfer
	Start File Transfer
OK Cancel	Re-scan COM Ports Cancel

Then the user must select the removal disc which is associated with the Rigel tester (for example removal disk E:) to allow the test results to be transferred from the Uni-Therm or Multi-Flo.

Select the appropriate file which should be in a format:

Sequences___DATE_TIME.sss in Format DDMMYYY and hhmmss

Then select OK. The file name should appear in the file transfer window and then select OK to transfer into Med-eBase

Download from Tester	8 ×
Instrument Type	
Rigel Uni-Therm	•
File Transfer	
quences_13122013_110307.ss	s

A download report will appear when the transfer is complete to indicate what has been transferred.



The downloaded sequences can be viewed in Med-eBase in Tools and then Global Test Sequence or the <a>[icon on the top left-hand side of the Med-eBase screen.

From this menu the test sequence can be viewed, edited and uploaded back into a Rigel Performance analyser.

Name	Class	Instrument Type	New
1 FX_POWERand_HF_L		Rigel Uni-Therm	Edit
			Delete
			Upload

When downloading files from the Rigel Uni-Therm or Multi-Flo the latest file will contain all previous Sequences stored on the Rigel device and therefore only the last file needs to be used when transferring files between the Rigel device and Med-eBase.

Sequence files should be in format **Sequences_DATE_TIME.sss** in Format DDMMYYY and hhmmss

Please refer to application note 0048 Downloading from the Rigel Uni-Therm and 377+ or 0049 Uploading and downloading Test Sequences from Uni-Therm and Med-eBase to aid in these processes.

4.2. Uploading Data from Med-eBase to a Rigel device

Test sequences can be uploaded from Med-eBase into some Rigel devices, please check the instruction manual or application note to confirm this.

Note: Sequences can only be uploaded to the same specific instrument test type there are associated with e.g., electrical safety test only to a Rigel 288 (+) or Rigel 62353 (+) only.

4.2.1. Electrical Safety and Vital Sign Simulators

Electrical Safety (288 (+) and 62353 (+)) and Vital Sign Simulators (Uni-Sim, BP-Sim and SP-Sim) use the same method of uploading test sequences from Med-eBase into the Rigel devices.

Sequences which have been created on Med-eBase as a Global Test Sequence or transferred from another Rigel device can then be uploaded into a Rigel electrical safety tester or vital signs simulator from Med-eBase.

On the Rigel device select OK from the Data Transfer screen to upload.

The Import Complete screen should appear to indicate that the import is complete.

Go into the Global Test Sequence menu on Med-eBase from Tools and then Global Test Sequence or the icon on the top left-hand side of the Med-eBase screen. Highlight the test sequence(s) that are required to be uploaded and select UPLOAD from the right-hand side of the screen.

Note: Multiple sequences can be uploaded simultaneously by holding CTRL and the selecting multiple sequences required. However, they must all be the same instrument type.

	Name	Class	Instrument Type	-	New
1	50601 - ClassI	Class I	Rigel 288/62353		Edit
2 6	50601 - ClassII	Class II	Rigel 288/62353		Delete
3 6	52353 - ClassI - Direct	Class I	Rigel 288/62353		Upload
4 6	52353 - ClassI - Diff	Class I	Rigel 288/62353		Duplicate
5 6	52353 - ClassI - Alt	Class I	Rigel 288/62353		
6 6	52353 - ClassII - Direct	Class II	Rigel 288/62353		
7 6	52353 - ClassII - Diff	Class II	Rigel 288/62353	in the	
8 6	52353 - ClassII - Alt	Class II	Rigel 288/62353		
9 (0701/0702 - ClassI - Sub	Class I	Rigel 288/62353		
10 0	0701/0702 - ClassII - Sub	Class II	Rigel 288/62353		
11 (0701/0702 - ClassI - Diff	Class I	Rigel 288/62353		
12 (0701/0702 - ClassII -Diff	Class II	Rigel 288/62353		
13 (51010 CLASS 1	Class I	Rigel 288/62353		
14 6	51010 CLASS 2	Class II	Rigel 288/62353		
15	Test Sequence 15	-	Rigel 288/62353		
16 6	5010 C1	Class I	Rigel 288/62353		
17	NEW	Class I	Rigel 288/62353		
18 6	52353	Class I	Rigel 288/62353		
19	TEST 505 FW	Class I	Rigel 288/62353	-	

Instrument Type	
Rigel 288/62353	*
Baud Rate	
57600	•
COM Port	
Standard Serial ov	ver Bluetooth link (COM5) 🔹

The upload global test sequence to test dialog box will appear and the user must confirm the Instrument type, correct Baud Rate and COM Port setting for the Data Transfer. Select OK to begin the transfer.

4.2.2. Performance Analysers Uni-Therm and Multi-Flo

The Rigel Uni-Therm and Multi-Flo use the same method of uploading test sequences from Med- eBase into the Rigel devices.

Connect a USB memory stick or cable to the Rigel device. Enter the data transfer screen and select the required OPERATION and PORT. To upload the operation needs to be IMPORT

Note: For detailed instructions on how to connect your Rigel device for Data Transfer, please see the instruction manual that accompanied your device. The download is always initiated by the Rigel tester.

Sequences which have been created on Med-eBase as a Global Test Sequence or transferred from another Rigel device can then be uploaded into a Uni-Therm or Multi-Flo from Med-eBase.

On the Rigel device select OK from the Data Transfer screen to upload.

The Import Complete screen should appear to indicate that the import is complete.

Go into the Global Test Sequence menu on Med-eBase from Tools and then Global Test Sequence or the icon on the top left-hand side of the Med-eBase screen. Highlight the test sequence(s) that are required to be uploaded and select UPLOAD from the right-hand side of the screen. Note: Multiple sequences can be uploaded simultaneously by holding CTRL and selecting the multiple sequences required. However, they must all be the same instrument type.

Name	Class	Instrument Type		New.
30 Conmed_7550_&_HF_leakage		Rigel Uni-Therm		Edit.
31 Conmed_7550_Full	22	Rigel Uni-Therm		Delet
32 Conmed_copy	•	Rigel Uni-Therm		Upload
33 Force_1		Rigel Uni-Therm		Duplica
34 ForceTriad_Periodic_Test		Rigel Uni-Therm		
35 FX				
36 FX_8C	-	Rigel Uni-Therm		
37 FX_8C_demo	5	Rigel Uni-Therm	E	
38 Triad HF leakage checks		Rigel Uni-Therm		
39 Triad_Bip_Low	122	Rigel Uni-Therm		
40 Triad_Bip_Macro	•	Rigel Uni-Therm		
41 Triad_Bip_Standard		Rigel Uni-Therm		
42 Triad_HF_Leakage_Current_	T .	Rigel Uni-Therm		
43 Triad_initial_inspection	20	Rigel Uni-Therm		
44 Triad_LigaSure_Test	-	Rigel Uni-Therm		
45 Triad_Mono_Blend		Rigel Uni-Therm		
46 Triad_Mono_Fulg	N	Rigel Uni-Therm		
47 Triad_Mono_Pure	22	Rigel Uni-Therm		
48 Triad Mono Spray	-	Rigel Uni-Therm	-	

The upload global test sequence menu will appear, and the user must indicate the

instrument type. Then select the file transfer

Instrument Type	•		
Rigel Uni-Thern	n		•
File Transfer			

Then the user must select the removal disc which is the Rigel device memory (for example removal disk E:) to allow the test sequence to be saved onto the Uni-Therm or Multi-Flo.

3,0406	ool Test Sequences	6	lane .	Instrument Type 🏾 *	2 33		d Tast Sa. 9 💷				21
9 K	ate test sequence			Rigel Uni-Them	2091	Instrument Typ	S				100
10 F	ORCE_FX	÷		Rigel Ure-Thoms	Delete	Rigel ESA-377	• •				
11 14	ahi.			Regel Lini-Thoms	Lipland	Pie Taufer	1.00				
12 9	W.	-		Rigel Ure-Therry							
13 R	LLFORCE.FX			Rigel Uni-Them							
14 1	RIAD			Regel Uni-Therm							
15 T	SEQ			Save File	-					and land	1
16 L	ABL	Cherr!				ALL BLANKS		-darline	ect forward Sul A		
i7 L	ABJ	Carr1		00	iputer + Pernow	and places!	the second s	· 1.44 36			
18 0	AT1	Charal .			Tolde				10 -	-	
19 0	AT2	Cont		Videos		1	Martin	Data modified	Type	Sian	
100.00	77+ Demo Test		-	A Kathanna Sumr	-		Results (99992013 300534 sss - Results (99992013 102355 err	08/08/2013 10:05 09/00/2013 10:21	\$35 File \$55 File		
AN P	The Deliver land		-	🖉 (Virtua/Box			Results 09092013 104123 551	05/09/2013 10:41	553 File		
			U Annet Deriv Deriv A Trait	Constructs Foreither Foreither Foreither My Occurren My Occurren My My Occurren My Visions My Visions	10) 10) 112 (E)	0					
				File name File name Sava ar type	ann no SS Fermat (* ang		*:		Swe Co		

The file must be named in the format **Sequences_DATE_TIME.sss** in Format DDMMYYY and hhmmss

•
el

Then select OK to upload the sequence.

Go back onto the Rigel device and select OK from the Data Transfer screen,

The Import Complete screen should appear to indicate that the import is complete.

Please refer to application note 0049 Uploading and downloading Test Sequences from Uni- Therm and Med-eBase to aid in this process.

5. Asset Details Tabs

5.1. Test Results Tab

From the Asset Details panel, select the Test Results tab. This will display the Test Result history for that Asset.

Deficiency 1 Pile 1.2030% 51.441CG 1.0420264 1.0400264 Develop dependence 2 -4.0 69.07 1.0402764 0.040274 Develop dependence 3 26 55.47 1.08 0.040210 0.040274 Develop dependence 3 26 55.47 1.08 0.020120 0.040274 Enterplation 4 Pile 0.0102 0.9027030 0.9047034 0.904704 Montparticit 5 Pile 0.124 0.90 0.9077030 0.9047044 Montparticit 6 Pile 0.124 0.90 0.9077030 0.9047044	All I Pick IL299 Stail CO 31.02014 10.001004 2 3.43 (2007) 1.000100 0.0001003 0.0001004 2 3.43 (2007) 1.000100 0.0001003 20.0400304 2 3.44 1.001 1.0001003 20.0400304 20.0400304 2 4.4 1.001 0.001 20.0400304 20.0400304 4 1.001 0.001 20.0400304 20.0400304 20.0400304 5 1.001 0.001 20.0400305 20.050014 20.0400304 6 4001 20.041 0.001/0014 20.050014 20.050014 8 0 4002 20.041/0013 20.050014 20.050014 10 1.00004 1.20096 20.01/0013 20.050014 20.050014 11 1.00000 2.00000 20.050/0014 20.050/0014 20.050/0014 12 1.000000 4.0001 2.050/0014 2.050/0014 2.050/0014 2.050/0014 2.050/001			Status	Name	Description	Last Test	Retest Date	
Image B/I B/I Option Dataset depends Dataset depends Dataset depends Conscil Tomans depends 2 Sci de 3/8 Sci de 3/8 <td>No. Sur.P 18 20.00202 20.042034 4 Pie 0.0121 Piez 30.042034 20.042034 5 Piez 0.022 20.042034 20.042034 20.042034 6 Piez 0.023 20.042034 20.042034 20.042034 6 Piez 0.024 20.042034 20.042034 20.042034 7 8 0.0121 C.02 20.042034 20.052034 8 0 0.022 Piez 20.05204 20.052034 9 Piez 12.2506 2.5021.0014 20.057034 20.057034 10 Piez 3.0601 2.5021.0014 2.057.0024 2.057.0024 12 Piez 4.051 Pieze Pieze Pieze 2.057.0024 2.057.0024 2.057.0024 13 Piez 1.012.061 C0 Pieze Pieze</td> <td>Broomfield</td> <td>1</td> <td>14</td> <td>125870</td> <td>SLeadECG</td> <td>11/92/2014</td> <td>11/08/2014</td> <td></td>	No. Sur.P 18 20.00202 20.042034 4 Pie 0.0121 Piez 30.042034 20.042034 5 Piez 0.022 20.042034 20.042034 20.042034 6 Piez 0.023 20.042034 20.042034 20.042034 6 Piez 0.024 20.042034 20.042034 20.042034 7 8 0.0121 C.02 20.042034 20.052034 8 0 0.022 Piez 20.05204 20.052034 9 Piez 12.2506 2.5021.0014 20.057034 20.057034 10 Piez 3.0601 2.5021.0014 2.057.0024 2.057.0024 12 Piez 4.051 Pieze Pieze Pieze 2.057.0024 2.057.0024 2.057.0024 13 Piez 1.012.061 C0 Pieze	Broomfield	1	14	125870	SLeadECG	11/92/2014	11/08/2014	
Count 3 8 547 19 Calcana 20.44004 III Henpidi III Henpidi IIII Henpidi III Henpidi IIII Henpidi IIIII Henpidi IIIII Henpidi IIIII Henpidi IIIIII Henpidi IIIIIIII Henpidi IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	2 3 54.7 19 20.40034 20.40034 4	EBNE	2	1980	65877	ThedICS.	2009/2013	20.03/2001	
Interplation Image	5 90 01,34 050 3004/2014 6 12.54 050 3004/2014 3004/2014 7 36 403.2 050/2013 3004/2014 8 0 460.2 050/2013 3004/2014 9 12.599 301/2014 050/2014 3004/2014 10 12.599 301/2014 250/2014 3004/2014 11 14 954.983 301/2014 250/2014 3004/2014 13 14 954.983 301/2014 250/2014 3004/2014 14 13 12.684.07.07 400/2014 300/2019 400/2014 14 13 12.684.07.07 400/2014 300/2019 400/2014 15 16 13 100.02.014 300/2019 400/2014 400/2014 14 14 13 100.02.014 300/2019 400/2014 400/2014 400/2014 15 16 100.02.014 300/2019 400/2014 400/2014 400/20	Gient1	3	×	51.47	18	23/10/2013	21/04/2014	
Normania Normania Normania Normania Normania 1 6 100 1244 050 port/2013 30040004 7 5 6 1244 050 port/2013 30040004 7 5 6 6 port/2014 30040004 30040004 9 6 6 port/2014 80040003 3005004 9 7 2549 2549 25410003 3005004 9 7 3549 12576 25410004 12540004 10 7 3549 12576 25410004 12540004 10 7 9549 12595 125410004 12540004 12540004 12 7 7 9749 7004111 12540004 12540004 12540004 13 7 7 7 7 9749 12540004 12540004 12540004	6 P 1234 DS DPA/CRAS 7 \$6 053/37 DPA/CRAS DPA/CRAS 8 0 04/62 DPA/CRAS DPA/CRAS 9 \$6 04/62 DPA/CRAS DPA/CRAS 9 \$6 04/62 DPA/CRAS DPA/CRAS 9 \$6 203/65 DPA/CRAS DPA/CRAS 10 \$6 203/65 DPA/CRAS DPA/CRAS 11 \$6 50/67 DPA/CRAS DPA/CRAS 12 \$6 40/62 DPA/CRAS DPA/CRAS 13 \$6 40/62 DPA/CRAS DPA/CRAS 14 \$6 11/14/14 DPA/CRAS DPA/CRAS DPA/CRAS 14 \$6 11/14/14 DPA/CRAS DPA/CRAS DPA/CRAS DPA/CRAS	Hospital 2	4	14	011012	ESU	29/97/2013	29/94/2034	
Best N Novel DSM DSM <td>1 M 65123 ESJ ESJ</td> <td>Hospital 3</td> <td>5</td> <td>par -</td> <td>01.234</td> <td>ESU</td> <td>30/07/2013</td> <td>30.04/2014</td> <td></td>	1 M 65123 ESJ	Hospital 3	5	par -	01.234	ESU	30/07/2013	30.04/2014	
P A A3133 DB DB State (1001) 0 0 0.442 memory/mail State (1001) 9 P 12396 State (1001) State (1001) 9 P 2396 State (1001) State (1001) 10 P State (1001) State (1001) State (1001) 11 P State (1001) State (1001) State (1001) 12 P State (1001) State (1001) State (1001) 13 P Tituda (1001) State (1001) State (1001) 14 State (1001) Tituda (1001) State (1001) State (1001)	8 0 advid.2 00/01/014 00/01/015 9 No 12509 200/0100 200/0100 10 12509 200/0100 200/0100 200/0100 11 No 54598 2501/0104 2501/0104 12 No 400/01 2501/0104 2501/0104 13 No 400/01 200/0104 2501/0104 14 No 12.0840 FCG 12/02/0104 200/0104 15 No Non/20104 12/02/0104 200/0104 14 No 12.0840 FCG 13/02/0104 10/02/0104 15 No Non/20104 13/02/0104 10/02/0104 16 Non/20104 13/02/0104 10/02/0104 10/02/0104	Ste1	6	100	12548	ERJ	30/97/2013	30/04/2014	
9 Part 125780 2651.0783 2606.006.4 30 Part 2639 257.01074 1569.006.4 31 Part 3640.1 2560.006.4 1569.006.4 32 Part 9785 2560.006.4 2560.006.4 37 Part 9786 2560.006.4 2560.006.4 36 11.000.007.0 1550.007.04 2560.007.4	9 Per 125760 20540 204/05/2064 30 Per 2359 359/02 359/02/2064 359/02/2064 31 Per 559/02 359/02/2064 359/02/2064 359/02/2064 32 Per 69/05 97/02/2012 250/02/2014 259/02/2014 32 Per 69/05 97/02/2012 250/02/2014 250/02/2014 34 Of 11/04/02 250/02/2014 250/02/2014 250/02/2014 36 11/04/02 350/02/2014 350/02/2014 250/02/2014 250/02/2014 36 36/02/2014 350/02/2014 350/02/2014 350/02/2014 350/02/2014	Pacycled	7	36	083123	ERU	29/98/2013	29/05/2014	
30 Per 2550 Schulank Schulank Schulank 11 Per Medal Schulank Schulank Schulank 12 Per Anton Perse Schulank Schulank Schulank 13 Per Benum Perse Schulank Schulank Schulank 14 Pers 11100000000 Schulank Schulank Schulank	30 P 2309 550 (2014) 550 (2014) 31 P 540 (2014) 550 (2014) 550 (2014) 32 P 9785 970 (2114) 550 (2014) 34 P 9785 970 (2114) 550 (2014) 34 P 124,000 (26) 120,000 (4114) 120,000 (4114) 34 P 124,000 (26) 120,000 (4114) 160,000 (4114) 36 P 30,000 (4114) 150,000 (4114) 150,000 (4114) Associational Association Associational Association Association Associational As		8	0	de6b2		06/01/2014	08/01/2015	
13 PP SHRM3 25501/2004 25501/2004 12 PP SHRM3 PROJEK 123 E5501/2004 15501/2004 13 PP BROW PROJEK 123 E5501/2004 15501/2004 13 PP BROW PROJEK 123 E5501/2004 15501/2004 14 IM BROW PROJEK 123 E5501/2004 15501/2004	11 PA 546X8 25671.0014 25671.0014 12 PA 473.0 PODE L31 12541.0014 25671.0014 13 PA Minuto PODE L31 12541.0014 125671.0014 14 PA 121.0649.0004 12020.0014 12020.0014 12020.0014 14 PA 121.0649.0004 12020.0014 12020.0014 12020.0014 15 PA Sa 130.002.0014 1002.0015 10002.0014 Americana Minuto		9	14	125786		26/11/2013	25/05/2014	
12 PA FMSS PMSSE123 SScHL0004.4 ISScHL0004.4 13 PA BERsun influenom 12/02/2014.4 12/02/2014.4 14 BERsun influenom 12/02/2014.4 12/02/2014.4	12 PA e9951 e90541 25 v01.0104 25 v01.0104 13 PA Billion whatem 2502.0104 25 v01.0104 14		10	1	25456		15/01/2014	15/07/2014	
127 🕶 Billium Welsson 12/02/2014 12/02/2014 14 🖷 12/02/07/04	13 Po Bitman microsom 20/2/2014 20/2/2014 14		31	140	384963		15/01/2014	25/97/2014	
14 🔮 12 USAD PCB	14 11 12.0040 PCG 10.002.0005 10.002.0005 . 15 Pile 56 30.002.0005 30.002.0005 . Mont Dombit Toro Torono Toro Torono . . .		12	520	47851	PROBE 123	15/01/2014	15/07/2034	
	13 Pa 56 30.022005 . Geneticate Americanski Test Revise Applied Parts Test Desame		37	in.	Billion	infusion	12/02/2014	32/92/2034	
15 🏴 36 10/02/2014 10/02/2015	Anne Denki. Anne Denki. "Rei Techto: Anne Anne. Teo Dennero.			12 UEAD ECG					
	Ameri Detala Tech Rosofto Applied Parta Tech Sequence		15	14	56		30/02/2014	10/02/2015	
Asset Details	Ameri Detala Tech Rosofto Applied Parta Tech Sequence		ASSHT Des	and a state					
Ameri Detala 1607.REG/10 Accided Parts Test Sequences	Test Reads		Amet	Dutala Te	d Results Applied Parts Te	of Semana)			
Test Res2te			·Test	Ram.Th		0.000.000			
Date Tested Industret Type Overall Solution	Date Tested 3 industrient Type Overall Status Insulin.			Date Teste	d Brobument Type Over	al Status			- Detaile
1 20.05/2013 Riget 286.02255 PP	1 /0.05/2011 Start 288/67252 🔛		13	20.05/2013	Rigel 288/62358	P2			Print Centifica
	THE CONCE								Set Septer
	The Control Television								, Aquilited First
									Test Separate
									Aquilited First
	The began								

Each row of the table in the Test Results tab refers to a complete result set.

• Use the Results button to display the individual Test Results for each test.

li s	-			20/09/2013 11:03:34 Tested By:				Admin		
ŀ	U			rpe: Rigel 288/62353			Test Mode: Aut	Automat	tomatic	
		Test	ter Serial No.:	X45-0450						
est Re	esults rveutrai								ω.	w
0	Load Cu	rrent								
0	Load Te:	st							0	
P	Enclosur	e Leakage ((60601)							
		Status	Polari	ty	SFC	Limit (µA)	Res	ult (µA)	AC/DC	
	1	P	Normal	2		100.0000	<4,000		AC/DC combi	
	2		Normal	Ne	eutral O/C	500.0000	<4.000		AC/DC combi	
	3	P	Reversed	28		100.0000	<4.000		AC/DC combi	
	4	P	Reversed	Ne	eutral O/C	500.0000	<4.000		AC/DC combi	
Comme	nts									
										_

A green flag indicates the test result is a pass. The blue flag indicates the result is for information only. A red cross is a failure. Click on the Plus symbol to expand the test result information.

Note: Any additional user comments can be entered in the Comments field. These comments will appear on the test certificate.

- Use the Print Certificate button to create the test certificate for the highlighted test result.
- Use the Test Sequence button to view the Test Sequence used for this test.

Name:	60601 - ClassII							
Instrument Type:	Rigel 288/62353							
Equipment Class:	Class II							
fest Sequence								
Endosure Lea	kage (60601)	8						
Patient Leaka	ge (60601)	۵						
Patient Auxilia	ary Leakage (60601)	0						
Patient Leaka	ge F Type (60601)	8						

• Use the Applied Parts button to display the Applied Part configuration for this test when testing using the Rigel 288/62353 (+).

Connections	Name	Connection Cla	55	Num Connectio	ons	Add
1 6	1	Type CF				Remov
2 7	New Ap Module	Type B	1			Move U
_	New Ap Module	Type B	1			Move Do
3 8	New Ap Module	Туре В	1			
• 9	New Ap Module	Туре В	1			
5 🔟	New Ap Module	Туре В	1			
•	New Ap Module	Туре В	2			

• Use the Delete key to permanently delete a highlighted test result.

5.2. Applied Parts Tab for Rigel 288/62353 (+)

The Applied Part tab displays the settings of the patient connections and applied parts for electrical safety testing using the Rigel 288/62353 (+). Each new Applied Part type has a colour code so that it can be distinguished from other Applied Part types in the Connections diagram.

Connections	Name	Connection Class		Num Connections	Add
6	1	Type CF	1		Remo
	New Ap Module	Type B	1		Move
27	New Ap Module	Type B	1		Move D
3 8	New Ap Module	Type B	1		
3 9	New Ap Module	Type B	1		
	New Ap Module	Type B	1		
5 10	New Ap Module	Type B	1		
	New Ap Module	Type B	1		
	New Ap Module	Type B	1		

The Applied Parts can be set-up for new Assets using this tab. For previous tests, the Applied Part fields are for information only and cannot be edited.

nnections	Name	Connection C	lass	Num Connections	*	Add
6	1	Type CF	1			Remov
) 🕖	EXAMPLE	Type B	1			Move U
	New Ap Module	Type B	1			Move Do
8	New Ap Module	Type B	1		=	
9	New Ap Module	Type B	1			
10	New Ap Module	Туре В	1			
	New Ap Module	Type B	1			
	New Ap Module	Type B	1			
	New Ap Module	Type B	1			

5.3. Test Sequence Tab

The Test Sequence tab displays the test sequence and individual test settings for this Asset. From this screen you can customise the test sequence associated with this Asset.

et Details Test R	esuits Applied Parts Te	st Sequence			
ument Type: Rigel	UNI-SIM 👻				
fo					
me: "Default Adult	ŧ				
st Sequence					
					dd Delete
User Test					e Down Move Up
SP02 Test Settings	5				port
1					JOI COL
Monitor Type:	Nelicor (Oximax)	•			
SP02:	95.0	15	Heart Rate: 90	bpm	
Perfusion:	5.0	5	Skin Colour: Medium	•	
				-	

Select the Add button to add a test above the selected line.

Select Delete to remove the selected line from the Test Sequence. Select Import to insert a Global Test Sequence into the Test Sequence.

Select Move Up/Move Down to move the selected test up or Down the Test Sequence.

Use the Plus symbol to expand and view the details of an individual test.

et Details Test Ren	ults Applied Parts	Test Sequence							
rument Type: Rigel U	NE-SIM ·								
fo									
me: "Default Adult									
st Sequence									
SP02 Test Settings								Add	Delete
NIBP Test Settings								Move Down	Move Up
Hupp lest Setongs						L	9	Import	
Monitor Type:	Datex-Omeda SS		•						
Adult / Infant:	Adult		•	Systolic / Diastolic:	120/80	• mmHg			
Heart Rate:	90		bpm		High	•			
			0-04	rve Graph					
<u>25</u>		\wedge							
2	/								
123			_				13		
						5.40 (4+)	1 2		

Each asset has an editable test sequence for each instrument type. This can be accessed via the Instrument Type drop down menu.

5.4. Searching for an Asset

Med-eBase contains a search facility to quickly find an Asset within the database. This can be accessed either by clicking on the Search icon on the top menu bar, or by selecting the Search tab in the Browse Assets window.

File Edit Toole H	
	a second and a second second second
Browse Assets	8
Asset Name:	
Description:	
Client:	
Site:	
Location:	
Manufacturer:	
Model:	
Serial No.:	
Service Code:	
st Date from: 🕅 01/0	1/2000 -
To: 🕅 01/0	1/2000 -
Overall Status:	•
Reset	Search
Browse Search	

Enter the relevant Search criteria to filter the search results. The results will be shown in the Asset Table view panel.

More than one search criteria may be entered in order to narrow down the results even further.

Filtered search and finding assets in Med-eBase can be done by using the wildcard "" in the search field. This will allow for various combinations to be searched for. For example, to search for an asset ID which has '234' in the middle of its name you would enter into the Asset ID Search field "234'. All assets with 234 in their name will be displayed. The position of the * indicate what the software will search for:

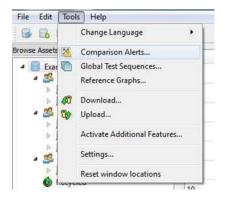
- *123 will look for assets with values before 123
- 123* will look for assets which start 123
- 1*3 will look for assets with 1 and 3 with some values in between.

To switch back to the Browse Assets view, select the Browse tab at the bottom of the window.

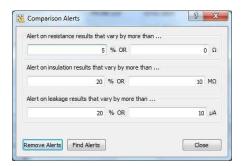
6. Comparison Alerts

The built-in Comparison Alerts feature can be activated to automatically warn users when test result values have deviated from a user-definable criteria or value. This provides peace of mind and avoids the user having to manually analyse their data. Test values can drift over time and whilst the latest values might still meet the PASS / FAIL criteria, a significant drift from previous or typical values could indicate a future problem or failure. Comparing data, will give you the assurance that your current downloaded data meets your expectation.

Select Tools, Comparison Alerts. This will open the Comparison Alerts window.



Specify a percentage or amount results change and Med-eBase will display assets where results vary accordingly.



Select Find Alerts to list all results sets that contain at least one result alert. Select Yes to view the Assets. To remove all active alerts, select Remove Alerts.



If any results are identified by the Comparison Alerts, then they will be identified with a warning symbol for user attention.

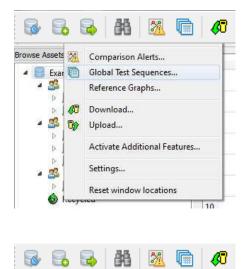
Acset Name: 1 4 #51004183 164/04/2009 Description: 2 4 963595 30/04/2009 Clerk: 3 4 PAU ACC800 21/10/2009	File Edit Tools	Help					
Realt Name Description 1 4 Name Description Cereorgian 1 4 90356 14/01/2005 Cereorgian 3 4 Mail Accido 21/10/2005	16 B 44	66668		0			
Asset Name: I I I Issistance Issis	irowse Assets			Status	Name	Description	Last Te
Clerif: 3 ACC600 21/10/2009	Asset Name		j i	4	851004183		16/04/2009
ACC800 21/10/2009	Description		2	A	903559		30/04/2009
			3	4	FAN	ACC800	21/10/2009
4 A 2584 04/11/2009	Ste		4	a.	2584		04/11/2009

7. Creating Test Templates

Med-eBase contains a function to create your own custom Test Sequence which can be uploaded from Med-eBase to your Rigel device.

This function allows you to plan your Test Sequence while using your PC, as an alternative to creating the Test Sequence using your Rigel device.

Select Tools, Global Test Sequences or the global test sequence icon on the task bar.



This will open the Global Test Sequences window.

Name	Class	Instrument Type	_	New
1 60601 Class I	Class I	Rigel 288/62353		Edit
2 FORCE_FX	2	Rigel Uni-Therm		Delete
3 PVM	•	Rigel Uni-Therm		Upload
4 RLI_FORCE_FX		Rigel Uni-Therm		Duplicate
5 TRIAD	1	Rigel Uni-Therm		
6 TSEQ		Rigel Uni-Therm		
7 60601	Class I	Rigel 288/62353		
8 G400 model 777000	5	Rigel Uni-Therm		
9 G400 Electrical Safety	Class I	Rigel 288/62353		
10 1221	2	Rigel Uni-Therm		
11 1222	-1	Rigel Uni-Therm		
12 1258		Rigel Uni-Therm		
13 288	•	Rigel Uni-Therm		
14 arrrrrrrrrrrr	21	Rigel Uni-Therm		
15 CONMED_5000	•	Rigel Uni-Therm		
16 ESU2		Rigel Uni-Therm		
17 Force_2_Broomfield	5)	Rigel Uni-Therm		
18 FX_POWERand_HF_Leakage	129	Rigel Uni-Therm	-	

7.1. Creating a new Global Test Sequence

To create a new Global Test Sequence, select New. This will open a blank Test Sequence (note this function is not applicable to all instruments).

nfo				
Name:	1			
instrument Type:	Rigel 288/62353			•
Equipment Class:				•
est Sequence				
		[Add	Delete
		6	Move Down	Move Up
		C C	Import	
			mportan	

Enter the Name for your new Global Test Sequence. This should be something that is recognisable to yourself so you can easily identify the Global Test Sequence once it has been uploaded to your device.

Select the Instrument Type and Equipment Class for Rigel 288 (+) ONLY from the dropdown menu. This will dictate which individual tests sequence elements are available for this Global Test Sequence.

Test Sequence		Read into Descri	8
Info			
Name:	example		
Instrument Type:	Rigel 288/62353		•
Equipment Class:	Class I		•
Test Sequence			
		Add	Delete
		Move Down	Move Up
		Import	
		ОК	Cancel

To add a test, click Add

Visual Test	
Earth Bond	
Insulation EUT 250V	
Insulation EUT 500V	
Insulation AP 250V	
insulation AP 500V	
insulation Applied Parts Mains 250V	
insulation Applied Parts Mains 500V	
Earth Leakage (Direct)	
Earth Leakage (AS/NZS 3551)	
Earth Leakage (AS/NZS 3200)	
Enclosure Leakage (60601)	
Chassis Leakage (NFPA99)	
Enclosure Leakage (AS/NZS 3200)	

This will display the tests that re available for your device. Highlight the appropriate Test Sequence Element and select OK.

The selected Test Sequence Element will now appear as part of your new Global Test Sequence. You now have the option to edit the test parameters by selecting the + icon at the end of each individual test to open the test options. This allows you to change limits (if required), timings and number of tests etc.

Name:	example								
Instrument Type:	Rigel 288/6:	2353							
Equipment Class:									
Endosure Lea Duration:		2	S	 				Add love Down	Delete Move Up
Test Cond	s / Fail Limit: litions rth Open sins Polarity R	V	μA	Pass / Fail L	1.57	A :	=		

To insert the Test Sequence Elements from another Global Test Sequence into your new Global Test Sequence, select Import. This will give you the option of importing an existing Test Sequence Element.

nfo				
lame:	example			
nstrument Type:	Rigel 288/62353			
quipment Class:	Class I			
est Sequence				
Enclosure Lea	kage (60601)	0	Add	Delete
			Move Down	Move Up
			Import	
			[Import t	est sequences
			C-participation of the second	

Highlight the Global Test Sequence and press the Select button.

Name	Class	Instrument Type	^	New
1 60601 Class I	Class I	Rigel 288/62353		Edit
2 FORCE_FX	22	Rigel Uni-Therm	E	Delete
3 PVM	-	Rigel Uni-Therm		Upload
4 RLI_FORCE_FX	5	Rigel Uni-Therm		Duplicate
5 TRIAD	5.	Rigel Uni-Therm		
6 TSEQ		Rigel Uni-Therm		
7 60601	Class I	Rigel 288/62353		
8 G400 model 777000		Rigel Uni-Therm		
9 G400 Electrical Safety	Class I	Rigel 288/62353		
10 1221	22	Rigel Uni-Therm		
11 1222	•	Rigel Uni-Therm		
12 1258		Rigel Uni-Therm		
13 288	5 .	Rigel Uni-Therm		
14 armmmmm	27	Rigel Uni-Therm		
15 CONMED_5000	-	Rigel Uni-Therm		
16 ESU2		Rigel Uni-Therm		
17 Force_2_Broomfield	.	Rigel Uni-Therm		
18 FX_POWERand_HF_Leakage	21	Rigel Uni-Therm		
19 KATE	-	Rigel Uni-Therm	-	Select

Note: The imported sequence must be the same instrument type.

To delete an individual Test Sequence Element from your Global Test Sequence, highlight the individual Test Sequence Element and select Delete.

To move an individual Test Sequence Element up or down the Global Test Sequence, highlight the individual Test Sequence Element and select Move Up/Move Down.

Info					
Name:	example				
instrument Type:	Rigel 288/62353				
Equipment Class:	Class I				
fest Sequence					
Endosure Lea	kage (60601)		-	Add	Delete
				Move Down	Move Up
Visual Test		8		Import	
Earth Bond		۵			
Patient Leaka	ge (60601)				
Patient Leaka	ge F Type (60601)	8			
Endosure Lea	kage (60601)	8			
				ОК	Cancel

Select OK to save your Global Test Sequence.

You will be redirected back to the Global Test Sequence Menu where you 'New' sequence should be located and is ready to be uploaded.

7.2. Editing a Global Test Sequence

To edit a Global Test Sequence, highlight the Test Sequence and select Edit.

Name	Class	Instrument Type	-	New
71 0701/0702 - ClassII - Sub	Class II	Rigel 288/62353	(Edit
72 0701/0702 - ClassI - Diff	Class I	Rigel 288/62353	(Delete
73 0701/0702 - ClassII -Diff	Class II	Rigel 288/62353	(Upload
74 61010 CLASS 1	Class I	Rigel 288/62353	[Duplicate
75 61010 CLASS 2	Class II	Rigel 288/62353		
76 Test Sequence 15	2	Rigel 288/62353		
77 6010 C1	Class I	Rigel 288/62353		
78 NEW	Class I	Rigel 288/62353		
79 62353	Class I	Rigel 288/62353		
80 TEST 505 FW	Class I	Rigel 288/62353		
81 Test Sequence NOV2013	Class I	Rigel 288/62353		
82 Test Sequence 21		Rigel 288/62353		
83 1801	Class I	Rigel 288/62353		
B4 KATE TEST	Class I	Rigel 288/62353		
85 *60601 - ClassI	Class I	Rigel 288/62353		
86 *62353 - ClassII - Direct	Class II	Rigel 288/62353	E	
87 example	Class I	Rigel 288/62353		

This will open the Global Test Sequence screen so that you can edit, add or remove any of the individual Test Sequence Elements in this Global Test Sequence.

lame:	example			
nstrument Type:	Rigel 288/62353			-
quipment Class:	Class I			•
est Sequence				
Patient Leaka	pe (60601)		Add	Delete
			Move Down	Move Up
Patient Leaka	ge F Type (60601)		Import	
Enclosure Lea	kage (60601)	8		
Earth Leakage	: (Direct)			
Patient Auxilia	ry Leakage (60601)			

Click OK to save the changes or Cancel to exit without saving.

7.3. Duplicate a Global Test Sequence

To copy a Global Test Sequence, highlight the test sequence and select Duplicate. This will allow the user to copy an existing global test sequence. The new sequence will be assigned the name of the original sequence with an [X] where is X is the number of iterations with the same name. Once the sequence has been duplicated the user can then rename the sequence and edit the tests within the new sequence.

Name	Class	Instrument Type	A New
71 0701/0702 - ClassII - Sub	Class II	Rigel 288/62353	Edit
72 0701/0702 - ClassI - Diff	Class I	Rigel 288/62353	Delete
73 0701/0702 - ClassII -Diff	Class II	Rigel 288/62353	Upload
74 61010 CLASS 1	Class I	Rigel 288/62353	Duplicate
75 61010 CLASS 2	Class II	Rigel 288/62353	
76 Test Sequence 15		Rigel 288/62353	
77 6010 C1	Class I	Rigel 288/62353	
78 NEW	Class I	Rigel 288/62353	
79 62353	Class I	Rigel 288/62353	
80 TEST 505 FW	Class I	Rigel 288/62353	
81 Test Sequence NOV2013	Class I	Rigel 288/62353	
82 Test Sequence 21	2	Rigel 288/62353	
83 1B01	Class I	Rigel 288/62353	
84 KATE TEST	Class I	Rigel 288/62353	
85 *60601 - ClassI	Class I	Rigel 288/62353	
86 *62353 - ClassII - Direct	Class II	Rigel 288/62353	E
87 example	Class I	Rigel 288/62353	
88 60601 Class [[1]	Class I	Rigel 288/62353	

7.4. Deleting a Global Test Sequence

To delete a Global Test Sequence, highlight the test sequence and select Delete.

Note: You will not be prompted for confirmation. The Global Test Sequence cannot be recovered once deleted.

	Name	Class	Instrument Type	_	New
1	60601 Class i				Edit
2	FORCE_FX	121	Rigel Uni-Therm	Е	Delete
3	PVM	-	Rigel Uni-Therm		Upload
4	RLI_FORCE_FX		Rigel Uni-Therm		Duplicate
5	TRIAD	(5)	Rigel Uni-Therm		
6	TSEQ	127	Rigel Uni-Therm		
7	60601	Class I	Rigel 288/62353		
8	G400 model 777000		Rigel Uni-Therm		
9	G400 Electrical Safety	Class I	Rigel 288/62353		
10	1221		Rigel Uni-Therm		
11	1222	-	Rigel Uni-Therm		
12	1258		Rigel Uni-Therm		
13	288		Rigel Uni-Therm		
14	arrrrrrrrrrr	122	Rigel Uni-Therm		
15	CONMED_5000	*i	Rigel Uni-Therm		
16	ESU2		Rigel Uni-Therm		
17	Force_2_Broomfield	1	Rigel Uni-Therm		
18	FX_POWERand_HF_Leakage	21	Rigel Uni-Therm	+	

7.5. Test Templates for the Rigel 288/62353 (+)

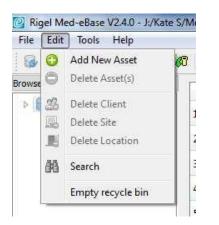
Templates can be created on Med-eBase for specific makes and models of devices to enable users and faster testing. The templates can be uploaded onto the Rigel 288 (+) **and then the user can enter the device's se**rial number and run the test without requiring entering any other details as they are linked to the template.

Equipment required

- PC with Med-eBase software
- Rigel 288 (+) firmware version 5.00 or higher
- Required test sequence/user manuals for devices
- Bluetooth or serial communication between PC and Rigel 288 (+)

Creating the Template using Med-eBase

Firstly, the template needs to be created in Med-eBase. When Med-eBase is opened select either Edit and then Add New Asset or the ^O icon on the right-hand side of the screen.



On the Asset details tab, the Asset Name and Equipment class need to be entered. The Asset Name should be the name for the template e.g., 1BF1 or 12 lead ECG. The select Apply.

The description may also be filled in to describe the applied parts. All other fields are device specific and can therefore be added when the template is on the Rigel 288 (+) or after the results are downloaded back into Med-eBase after the testing is complete.

Note: The Asset ID field on the Rigel 288 (+) is case sensitive and therefore it is advised to keep names simple and to one case style.

Asset Details	Test Results	Applied Parts	Test Sequence						
Details									
Asset Name:	18F1					Serial No.:			
Description:	NIBP					Manufacturer;			٠
Client:					•	Model:			•
Site Name:						Service Code:			٠
Location Name:					•	Equipment Class:	Class I		•
Test Period						AP Configuration	n		
	Re-test Period (months): 0	Next Test:	No Test Scheduled		[1BF]		View	
								Apply	ese

On the Applied Parts tab the Applied Parts need to be added by selecting the Add icon on the right-hand side of the screen.

Once an Applied Part has been added double click on the required fields to change the Name, Connection Class and Number of Connections. E.g., For a 12 Lead ECG machine there are 10 CF APs. For defibrillators you will need to add another AP as defibrillators have both CF and BF APs; 2 BF for the paddles and 3 CF for 3 Lead ECG. Then select Apply.

Conne	ections	Name	Connection CI	ass	Num Connections	Add
1		New Ap Module	Type BF	1		Remove
2)	7					Move Up
2	(1)					Move Down
9	9					
5	10					

On the Test Sequence tab make sure that the Instrument Type is Rigel 288/62353 (+). The test sequence to be performed needs to be added or imported in this tab.

Asset Details Test Results Applied Parts Test Sequence	
Instrument Type: Rigel 288/62353 💌	
Info	
Name:	
Test Sequence	
	Add Move Down Move Up Import
	Apply Reset

Global test sequences can be imported using the Import... icon which will open the global test sequence menu. The appropriate test sequence can be highlighted and then Select to import the sequences into the Asset Template.

	Name	Class	Instrument Type	-	New
27	force_1c		Rigel Uni-Therm		Edit
28	FORCE_2		Rigel Uni-Therm	-	Delete
29	Force_2_2graphs		Rigel Uni-Therm		Upload
30	Force_2a		Rigel Uni-Therm		
31	force_4	3 4 8	Rigel Uni-Therm		
32	FX		Rigel Uni-Therm		
33	FX_2	858	Rigel Uni-Therm		
34	FX_3		Rigel Uni-Therm	-	
35	FX_4		Rigel Uni-Therm		
36	FX_POWERand_HF	-	Rigel Uni-Therm	E	
37	POWER_TEST		Rigel Uni-Therm		
38	60601 CLASS I	Class I	Rigel 288/62353		Select

Alternatively, tests can be added to create a sequence using the Add... icon. Move down, Move Up and Delete allows the user to organise the test sequence as desired.

Note: Holding down Ctrl when selecting multiple tests allows them to be added simultaneously. The tests will be added in the order they were selected and can therefore make creating a test sequence easier

e: 60601 Class I	
Sequence	
Earth Bond	Add Delete
Earth Leakage (Direct)	Move Down Move Up
Endosure Leakage (60601)	Import
Patient Leakage (60601)	
Patient Auxiliary Leakage (60601)	
Patient Leakage F Type (60601)	

The Name selected in the Info field will be the test name given on PDF and certificates once the test results are downloaded. E.g., 60601 Class 1 or 12 lead ECG class 1.

When complete select Apply to save changes. Upload the template onto the Rigel 288 (+)

Note: This feature is only compatible with Rigel 288 (+) devices that have firmware Version 5 and higher.

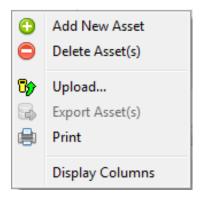
Please see application note 0029 on how to upgrade Rigel 288 (+) Firmware for this feature to be available.

Firstly, ensure that the PC and Rigel 288 (+) are connected either via RS 232 cable or Bluetooth. Go to F4 > Data Transfer> Upload from PC> F4 tick to confirm

On Med-eBase select the Asset Template so that is it highlighted. Alternatively hold down Ctrl to add multiple assets or Ctrl A to select all.

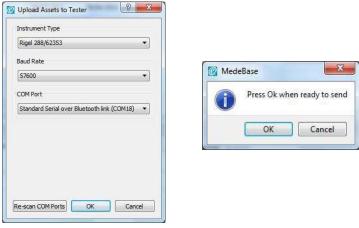
	Status	Name	Description	Last Test	Retest Date
		2210000		Last Test	netest bate
1		1*AP-BF Cl2 Dir			
2	0	18F1	NIBP/SPO2/Perf		
3					
4	۲	5*AP-OF CIL Din	ECG		
5	Θ				
6	8				
7					
8	۲				
9	۲				
10	8		NIBP/SPO2/Perf		
11	۲		NIBP/SPO2/Perf		
12	۲				
13	۲				
14	8				
15	۲				
16	۵		3*ECG+NIBP+S		
17	۲	5*PA-3*CF+2*B	3*ECG+NIBP+S		

Right click and select upload or select the upload icon by from the right-hand side of the screen or go to Tools > Upload.



Select the correct Instrument Type from the drop-down list. The Default baud rate for the Rigel 288 (+) is 57600. Select the correct COM port which is the Bluetooth connection (you may need to look at your Bluetooth properties to check the correct COM port) or COM 1 if using a RS 232 serial cable.

Select Ok and once the Bluetooth icon appears in the right corner of the Rigel 288 (+) select Ok to start the upload.



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7.6. Test Templates for the Rigel Uni-Sim

To create a test sequence in Med-eBase select the Global Test Sequence icon or select Tools and then Global Test Sequence...

Select New

	Name	Class	Instrument Type	1	New
1	Aesculap_GN_60	-	Rigel Uni-Therm		Edit
2	Force_2	125	Rigel Uni-Therm	H	Delete
3	Force_EZ_8C	(1)	Rigel Uni-Therm		Upload
4	Force_FX_8C	276	Rigel Uni-Therm		
5	Force_Triad		Rigel Uni-Therm		
6	Olympus_UES-40	325	Rigel Uni-Therm		
7	ESG-100	1940	Rigel Uni-Therm		
8	BIOMED CLASS 1	Class I	Rigel 288/62353		
9	LCD	Class I	Rigel 288/62353		
10	US	Class I	Rigel 288/62353		
11	TestCode-TC03	1940	Rigel 288/62353		
12	TestCode-TC01	258	Rigel 288/62353		

Enter the sequence name and the instrument type.

Note: Test sequences are for one instrument type only and therefore Med-eBase will not allow the user to mix tests from different Rigel devices (e.g., electrical safety and Vital Sign Simulations).

Select Add to insert a test or import to import an already created global test sequence. For the Uni-Sim test option are shown in the image below.

Choose Test Sequence Elements

Test legience		Listing all test sequence elements for Rigel UNI-S
Interest Type (Spa) 200,0000	Addium () Andre March () March () March () March () March ()	NIBP Leak Test NIBP Pop-off Test NIBP Test Settings SP02 Test Settings Patient Test Settings Start All Tests NIBP Static Pressure Test NIBP Static Pressure Test IBP Static Test Performance Wave Test User Test
	Const.	OK Cancel

The user can select multiple tests by holding ctrl when selecting and the order of selection is remembered in the sequence when OK is selected.

	fo				
Na	ame:	Example Test Sequence			
In	strument Type:	Rigel UNI-SIM			٣
Eq	quipment Class:				
Te	st Sequence				
	NIBP Test Set	50.00	8	Add	Delete
				Move Down	Move Up
	SP02 Test Set	tings	0	Import	
	Patient Test S	ettings	۵		
	Start All Tests				

Select the Expand e on each individual test to change the test setting and during of test in the start all tests field.

kre:	Example Test Sequence						
ndrument Type:	Rigel LT-SM						
adment Gent:							
est Sequence							
	1150				-	Atto	Delate
10297 That Set	91gs				E	Move Down	Militia
Monitor Ty	bei Datex-Orieda St	· •)				Asport	
Adult/ In	nero Adut	•1	Systolic / Destol-c	120/80 *	men	Concerning and	
HewiRat	ei 50	bpm	Alte Volvee	Low ·			
-		O-Carine Gr	aph				
	\wedge	(1		
	/						
-		~					
1.000				-	-		
SP02 Test Set	mas				a		
Patient Test S							
Canada (Cara)	100 M 100						
		17.00			-10+ V		

After each group of simulations, the start all tests must be inserted so that each simulation or change of settings has a set time for the Uni-Sim to recognise.

liane: Instrument Type:	Example Test Sequence Rigel Ling-SM	e			
Spigment Gaus:					
lest Sequence					
Uner Test			 	Actil	Delete
NEP Just Set	10		9	MoveConn	- Hereite
SP02 fast Set				Inport	
Pattern Text 5			9		
Stert All Texts	1) (A)				
NDP Text Set	lange.				
SP02 Test Set	tire#				
Patient Test 5	attege		1		
Skert All Texts	1				

Once the test sequence is complete select OK.

Please refer to application note 0057 Creating Test Sequences for Rigel Uni-Sim for further details of this process.

Creating and uploading 'O Curves' into Med-eBase

To add an 'O Curve' onto the Med-eBase V2 software you will need to add the 'O Curve' to a folder structure which is location outside of the Med-eBase program.

For Windows XP: Go to C:\Documents and Settings\All Users\Application Data\Rigel\MedeBase V2\OCurves

For Windows 7: Go to C:\ProgramData\Rigel\Med-eBase V2\OCurves

Note: Program Data and Application Data may be hidden folders.

The original csv file used to download the 'O Curve' onto the Uni/BP Sim needs to be altered by erasing lines 1 to 4.

The CSV file needs to be saved in the follow folder structure which is critical for loading 'O Curves' onto Med-eBase:

<O Curves>

<Monitor Type name> e.g., Datascope Passport 2. These folder names will be shown in the Monitor Type drop down list in Med-eBase

<Adult>

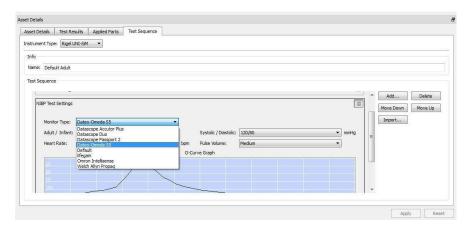
<Infant> These folders will contain the csv file for Adult or Infant curves

<CSV files> Each curve should be saved using the format of Systolic and Diastolic values as 3 digits e.g. 080_040.csv.

Re-open Med-eBase V2 and click on Tools, then Global Test Sequences and then New. Then select BP/Uni Sim and enter the name of the new test sequence.

Select Add... then select 'NIBP Test Setting', click on the + and there will be a drop-down list in Monitor Type field where you can select your 'O Curve'.

Then in the Adult/Infant field select the type of patient and the chose the Systolic/Diastolic field to select the exact 'O Curve' you want to add to the test sequence.



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Please refer to application note 0040 Creating and uploading 'O Curves' on Uni-Sim and Med- eBase for instructions on how to create O curve and further information on this feature.

Uploading 'R Curves' into Med-eBase

Manufacturers of SPO2 monitors all use different algorithms to determine the R curves. By creating a custom 'R Curve' for a particular monitor or manufacturer types the UNI-SIM or SP-Sim can be made to match the SPO2 Monitor more accurately.

The purpose of this document is to provide information on how to create 'R Curves' for an SP02 monitor and add them to part of a test sequence within Med-eBase.

Note: These 'R Curves' are for use with the optical finger adapter box only

Please refer to application note 0061 Creating and uploading 'R Curves' on Uni-Sim and Med- eBase for steps on how to create R Curves and further information on this feature.

We strongly advise that the 'R Curves' are inserted into Med-eBase V2.4.1 and above R Curves data folder to enable users to create test sequences using the software which can then be uploaded to the UNI/SP-Sim.

The 'R Curve' data folder can be found in one of the following locations which Med-eBase has been installed on.

Note: Program Data and Application Data may be hidden folders.

Creating Test Template using R Curves

Open Med-eBase and select Tools > Global Test Sequences > New.

Then select SP/Uni Sim and enter the name of the new test sequence.

Add... then select 'SP02 Test Setting', click on the + and there will be a drop-down list in Monitor Type field where you can select your 'R Curve'.

SPO2 Test Settings	
Monitor Type Methor (Standard) Method (Standard) SPOId Description Ns Heads Rate: na tpm Pertusion Method (Standard) Ns Silo Colouri Method (Standard) Method (Standard) Ns Silo Colouri Method (Standard)	Delete love Up

Any errors which have been detected in an R curve script file will be displayed in a dialogue box and the Curve will not be included in the drop-down list. This was included so any errors can be caught with custom R curves which are user created.

e de Base	
Errors during p	arsing of R-Curves
Masimo : Numb	er of adaptors found do not match the counter value
	ок

Editing existing Test sequences

Existing test sequences can be downloaded from the UNI/SP-Sim into Med-eBase and will include a custom or existing R Curve data. If the data is a custom R curve which Med-eBase does not have in its R curve data folder, the R curve name from the test sequence will be included in the drop-down list previously shown until another curve is selected.

Therefore, it is strongly advised that all R Curves are not only stored within the R Curve data folder for Med-eBase but also on the UNI-SP-Sim itself to allow test sequences to be easily created and transferred between the Rigel unit and the software.

7.7. Test Templates for the Rigel Uni-Therm

To create a test sequence for the Uni-Therm in Med-eBase select the Global Test Sequence icon or select Tools and then Global Test Sequence

Select New

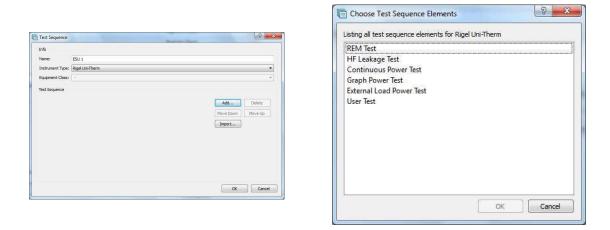
	Name	Class	Instrument Type	*	New
1	Aesculap_GN_60	-	Rigel Uni-Therm		Edit
2	Force_2	122	Rigel Uni-Therm		Delete
3	Force_EZ_8C	(m)	Rigel Uni-Therm	-	Upload
4	Force_FX_8C	2-0	Rigel Uni-Therm		
5	Force_Triad	-	Rigel Uni-Therm		
6	Olympus_UES-40	323	Rigel Uni-Therm		
7	ESG-100	(14)	Rigel Uni-Therm		
8	BIOMED CLASS 1	Class I	Rigel 288/62353		
9	LCD	Class I	Rigel 288/62353		
10	US	Class I	Rigel 288/62353		
11	TestCode-TC03	-	Rigel 288/62353		
12	TestCode-TC01		Rigel 288/62353		
4.7	T 10 1 TC00		D: 1000 (C00C)	-	

Enter the sequence name and the instrument type.

Note: Test sequences are for one instrument type only and therefore Med-eBase will not allow the user to mix tests from different Rigel devices (e.g., electrical safety and Electrosurgical).

Select Add to insert a test or import to import an already created global test sequence into the new global test sequence. For the Uni-Therm test option are shown in the below image.

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The user can select multiple tests by holding ctrl when selecting and the order of selection is remembered in the sequence when OK is selected.

Vame:	ESU 1			
instrument Type:	Rigel Uni-Therm			
Equipment Class:				
fest Sequence				
REM Test		8	Add	Delete
HF Leakage T		8	Move Down	Move Up
			Import	
Graph Power	Test	0		
HF Leakage T	st	E		
User Test		в		

Select the Expand each individual test to change the test setting and during of test in the start all tests field.

nfo						
Name:	ESU 1					
Instrument Type:	Rigel Uni-Therm			_		
Equipment Class:	-					
Test Sequence						
					Add Delete	_
REM Test				ń	Move Down Move Up	۲
HF Leakage 1	est				Import	Ļ
ESU On T					Import	
2	me		5			
ESU Off T	îme		·			
2			s			
ESU Powe	s .					
100			w			
Test Time				Е		
10			s			
Start Dek	ny					
200			ms			
Load Res	stance	122	ar:			
200		(\$)	Ω			
Pass / Fai	Limit		mA			
200 Test Conf	in uration		па			
1111	1901 80011	•				
				ш		
Graph Power	Test		8			
HF Lastana T	iont .		19	٣		

After each group of simulations, the start all tests must be inserted so that each simulation or change of settings has a set time for the Uni-Sim to recognise.

Once the test sequence is complete select OK.

To upload the test sequence into the Uni-Sim highlight sequence and select upload

Name	Class	Instrument Type	^	New
72 0701/0702 - ClassI - Diff	Class I	Rigel 288/62353		Edit
73 0701/0702 - ClassII -Diff	Class II	Rigel 288/62353		Delete
74 61010 CLASS 1	Class I	Rigel 288/62353		Upload
75 61010 CLASS 2	Class II	Rigel 288/62353		Duplicate
76 Test Sequence 15		Rigel 288/62353		
77 6010 C1	Class I	Rigel 288/62353		
78 NEW	Class I	Rigel 288/62353		
79 62353	Class I	Rigel 288/62353		
80 TEST 505 FW	Class I	Rigel 288/62353		
81 Test Sequence NOV2013	Class I	Rigel 288/62353		
82 Test Sequence 21	21	Rigel 288/62353		
83 1801	Class I	Rigel 288/62353		
84 KATE TEST	Class I	Rigel 288/62353		
85 *60601 - ClassI	Class I	Rigel 288/62353		
86 *62353 - ClassII - Direct	Class II	Rigel 288/62353		
87 example	Class I	Rigel 288/62353	E	
88 60601 Class I[1]	Class I	Rigel 288/62353		
89 6501		Rigel Uni-Therm		

7.8. Test Templates for the Rigel Multi-Flo

Please refer to Chapter 10 on remote control Multi-Flo for information regarding test templates for the Rigel Multi-Flo.

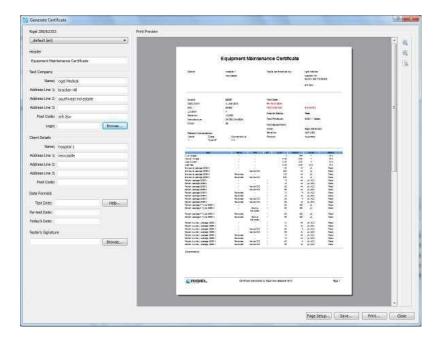
8. Test Certificates

Med-eBase contains an automatic certificate generator which will produce either a paper certificate (print), or an HTML or PDF version for easy electronic storage and transfer.

Highlight the relevant Asset and select the Test Results tab in the Asset Details view. Select the Print Certificate button from the side menu to create the test certificate for the selected Test Result.

	8	Status	Nane	Description	Last Test	Refest Date	2
 Example Database.db Brogrefield 	1	-	125676	5 Lead ECG	11/02/2014	11/08/2014	
BIE EBME BIE Theates department	z		0007	T Level ECG	29,499,2113	29/03/2014	1
* Si Cient1	3	×	5147	19	IL/10/2013	21/04/2014	
III Hespital 1 III Hespital 2	4	-	013012	£50	29/07/2013	29/04/2014	+
Bergeled Recycled	5	kn	()1234	650	30/07/2013	30/04/2014	
		in the	12548	ESU	30/07/2013	30/04/2014	
	7	×	085123	ESU	29/06/2013	29/05/2014	
	e	0	deth2		08/01/2014	08/01/2015	
	9	Fa	125706		20/13/2013	35/05/2014	
	50	pa.	23456		15/01/2014	15/07/2014	
	н	pu -	584563		15/01/2014	13/07/2014	
	1.2	-	47851	PROBE 123	15/01/2014	15/07/2014	
	19	10	Bibun	intusion	12/102/2014	12/02/2014	
	14	100	12 LEAD ECG				
	- 13	ha.	56		10/02/2014	10/02/2013	
	a second		st Results Applied Parts Task				. Smith
		81/09/2013	Figel 268/62333	U			Print Centificate
							Text Separate
							Text Seguerum

From here you can edit the Test Company and Client details before selecting either to Print or Save.



8.1. Med-eBase Multiple Print function

The print function can allow for an individual asset result or multiple result certificates to be printed. Results certificates must meet certain criteria to be able to print multiple certificates:

- The same Instrument Type (e.g., 288 (+))
- Assigned to the same client, in the asset browser,

Select the first asset from the main asset browse screen

ves Ansatz		Status	Name	Description	Last Test	Refest Date	0			
Compare Reinsmach Sin Records Sin	1	pa.	125676	\$ Lead ECG	11/02/2014	11/06/2014	0			
	z		0007	1 Label ECG	29/46/2013	49/03/014				
	3	ж	5347	19	11/10/2013	21/04/2014				
	4	ha	011012	ESU	29/07/2013	29/04/2014	* B			
	3	ha	01234	650	30/07/2013	35/04/2314				
	4	in the	12548	ESU	32/07/2013	30.06/2314				
	7	ж	085123	620	29/06/2013	28/05/2014	J			
		0	seth2		08/01/2014	08/02/2015				
	9	in .	125786		36/11/2013	25/05/2014				
	10	PR	22426		15/01/2014	13/07/2914				
	11	Par	584563		15/01/2014	15/07/2014				
	1,2	har	47851	PROBE 123	15/01/2014	15/07/2014				
	17	kn	Bilaun	infusion	12/02/2014	12/02/2014				
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Press and hold ctrl to select additional assets. All selected assets should be highlighted.

ourts.		Status	Name	Description	Last Test	Refest Date		
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> III EBN€	7					15/07/2014		
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	2					10-02/2015		
Hospital 3	5	pu -	257	PROBE 123	05/02/2014	85/06/2014		
HOSPITAL 12	4	FU	2536	PROBE 123	10/02/2014	10/06/2014		
M WARD'S Recycled	2	pa.	125	PROBE 123	10/02/2014	10/06/2014		
	e .	P	236	PROBE 123	10/02/2014	10-06/2014		
	9	*	3525	PROBE 123	10/02/3014	10/06/2014		
	10	pa.	01928	Infusion pump	12/03/2014	12/12/2014		
	11	FU	Q123	Infusion device:	12/03/2014	12/12/2014		
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Then select the Print icon on the right-hand side and select the Device type - the generate certificate menu opens to allow you to scroll through the certificates, set the template and add additional details etc. before printing or saving the certificates as PDF.

tigel 288/62353		Print Preview							
_default (de)	•						-	<u>^</u>	e
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Test Company				10-101		t Text Low See Text Sector Sector			
Name:	Acme Test Limited		Professo Sacreburg	219006	Broffan en Bildere Briffung			E	
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					-	ige Setup	Save	•	ose

Please refer to application note 0051 Med-eBase and multiple print functions for further information of this process.

8.2. Changing the Certificate Template

To change the certificate template, open the drop-down Template menu.



The default choices are either the plain certificate or a blue themes certificate. These are both available in a range of languages.

With a basic knowledge of HTML, it is possible to further customise these test certificates. The certificate templates may be found in the Windows application data directory for all users (for example C:\ProgramData\Rigel\Med-eBase V2\Certificates).

The saved file will then appear as a usable option in the Template drop down menu.

Videos Videos Katherine Summers Computer System (C:) apps Dell fb2ef2627ec54a66f632397f Gladinet Intel Lotus Madics ATE MSOCache PerfLogs Program Files Program Files (F9E8822-7CC3-43A0-A6E8-5F Adobe Apple Apple Seluctoth FLEXnet GoldMine	Jefault (de) Jefault (de) Jefault (en) Jefault (es) Adefault (fr)	Date modified 19/03/2013 14:56 14/08/2013 12:15 19/03/2013 14:56 19/03/2013 14:56	Type File folder File folder
GroupPolicy		u.	

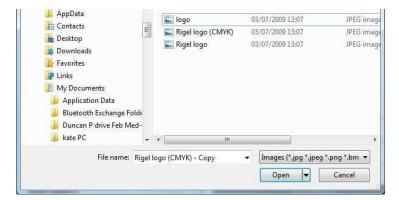
Rigel 288/62353	rir Prir	nt Preview				
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_default (pl) _default (zh) Blue (de) Blue (en) Blue (es) Blue (ff) Blue (tj)		Autor agailteer	Equipment Ma	aintenance Certifica	fgi Natar Isabar H Babar H Babar Kasa Isabar Isabar	
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8.3. Inserting a company logo

To insert your company/personal logo, select Browse. This will open a search window.

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leader		-	E	quipment Main	tenance Certifica	ite	6.	0
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	sr8 2sw		1 30407	42				

Locate the logo file and select Open.



This will place your custom logo at the top of the test certificate

Rigel 288/62353				Print Pr	eview								
_default (de)		•		11								-	•
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Test Company								RIC	ξEL	ostivatiode vistav	4728		
Name:	rigel Medical				Priting	<i>cua</i>		Pritid aum:	~				
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Today's Date:					BIGEL	Centro	en Gererand by	Rigel Ned-aliase © 2011			Page 1		
Tester's Signatur	e			-									
-		Browse	Ļ									+	
		2					Page Si		Save		Print		Close

8.4. Inserting an electronic signature

To insert your electronic signature block, select Browse. This will open the search window.

Date Formats		New Manager	Arrest Married H	a -1 (186) fee	
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Re-test Date: Today's Date:	_	BIGEL	Cartificate Generated by Figel Net-related C 50+5	Reps.)	
Tester's Signature		-			
	Browse	-			
			Page Setup S	ave Print	Close

Identify the file containing your electronic signature and select Open to insert this into the test certificate.



The signature will now appear in the signature area of the test certificate.

Rigel 288/62353		Print Preview			
_default (en)	•	Equipment Main	tenance Certificat	e ^	e
leader					0
Equipment Maintenance Certificate		hospital 1 new castle	Tests perform ed by:	rigel Medical bracken Hil	6
Test Company				sr8 2sw	
Name: rigel Medical				51025W	
Address Line 1: bracken Hill					
Address Line 2: southwest ind estate		5147 1B	Test Date: Re-Test Date:		
Address Line 3:		Hospital	Test interval:	6 m onths	
Post Code: sr8 2sw		014524	Overall Status:	Fail	
Logo: Rigel logo (CMYK).jpg Browse			Test Protocol:	TestCode-NEW8	
· · · · · · · · · · · · · · · · · · ·			Test Equipment: Model	Ripel 288/62353	
Client Details	m		Serial No.	X 45-0 450	
Name: hospital 1		Connection(s)	Protocol	Semi-automatic	
Address Line 1: newcastle					
Address Line 2:		Mains SFC			
Address Line 3:		· · · ·	0.200 >2	0.000 D I	
Post Code:					
Date Formats					
Test Date: Help			Signature	Date	
Re-test Date:		EX	AMPLE		
Today's Date:					
Fester's Signature					
rineS/Pictures/example signature.png Browse			ш		

8.5. Customising Certificate Templates

All certificates are located in:

C:\ProgramData\Rigel\Med-eBase V2\Certificates\Templates.

Note: Program Data may be a hidden folder and therefore you will need to go to 'Organize' and then to 'Folder and Search Options'. Select the 'View' tab and 'show hidden files and folders'. Click 'Apply' and then 'OK'. The program data folder should now be available to view.

Within the certificates Template folder all available Tester Type Folders can be selected and within each is the different certificate types and languages e.g. Rigel 288_62353 (+) inside this is all the default and blue certificates for the electrical safety testers.

The user can then copy a folder to customise or rename the certificate type most used so that it appears first in the list on Med-eBase. We advise that the new certificate needs to be renamed with a relevant name as this is what will appear on the dropdown list of certificate templates to choose from in Med-eBase E.g. Customised

Note: If the customised template folder is not renamed it could be overwritten when new versions of Med-eBase Software are installed in the future.

RIGEL MEDICAL

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Rigel Med-eBase Licence Adm Med-eBase V2 Certificates Rigel 288,62253 Rigel BP-Sim Rigel ESA-377 Rigel Multi-Flo Rigel Uni-Pulse Rigel Uni-Sim Rigel Uni-Therm Databases OCurves Tempfiles SoftwareX4	Name Rigel 288_62253 Rigel BP-Sim Rigel Multi-Flo Rigel Uni-Flo Rigel Uni-Pulse Rigel Uni-Sim Rigel Uni-Therm	Image: Rigel Name Image: Med-eBase Licence Adm Image: Adm Image: Med-eBase V2 Image: Adm Image: Certificates Image: Adm Image: Rigel SR-5253 Image: Adm Image: Rigel Uni-Funce Image: Adm Image: Rigel Uni-Funce Image: Blue (en) Image: Rigel Uni-Therm Image: Blue (pl) Image: Databases Image: Blue (pl) Image: Docurves Image: Blue (pl) Image: SoftwareX4 Image: Charles

Select the copied folder and then open the file in either notepad or notepad++ to enable editing.

Note: Notepad ++ provides an easier layout to follow and is an open-source program which can be download from the internet.

The ONLY words that can be customised are shown with the character string "label"> :. Select Ctrl F to find the title which you want to customise. E.g., Test Protocol and enter the new phase is in between the arrows. On Notepad ++ changeable words are indicated in black.

Note: On notepad ++ do not change any words in GREEN as this is information that comes from the Rigel tester. If this is changed the information will not be transferred from the results onto the certificate



Once completed make sure the certificate has been saved. Then open Med-eBase, select the test asset you want to print and then select the print certificate icon. This takes you to the certificate screen where the dropdown menu for templates should include your customised template.

RIGEL MEDICAL

igel 288/62353		Print Preview					
customised	•		Medical City	0		Tester Tow n Testershire	
leader			MD11DM			TS1 1ST	
Equipment Main	tenance Certificate						
est Company		Asset:	201216150		Test Date:		
Name:	Acme Test Limited	Des cription: Site:	Factory		Re-Test Date: Test interval:	12 months	-
ddress Line 1:	12 Tester Lane	Location: Seriel No	Banddd		Overall Status:	Pass	
Vddress Line 2:	Tester Town	Manufacturer:			Standard:	**62353 - Class I - FT	
ddress Line 3:	Testershire	Model	CLEARWAY		Test Equipment:		
Post Code:	TS1 1ST	Patient Connections:			Nodel Serial No.	Rigel 288/62353 X45-0450	
Logo:	Browse	Name 010a03310000000000000000000000000000000	Class 7	Connection(e) 1-48	Protocol	Semi-automatic	
lient Details		000000000000000000000000000000000000000	?	49-90 97-144			
Name:	Medicorp Limited			100 000			
ddress Line 1:	34 Medicine Road	Test	No.	sins SPC	AP Limit Resu	N Linits	Status
ddress Line 2:	Madeal City	Vieual Test			- ALAN PACAS		Pass

Please refer to application note 0044 Customising Med-eBase certificate for further details of this process.

8.6. Certificate Template Preference

The latest certificate is remembered by Med-eBase the next time the user goes into the print certificate screen. However, if the user does not have enough user admin rights this feature will not be able to write to the registry.

If the user does not have admin rights, they can go into the certificates template folder (see 6.4) and remove the unnecessary languages or change the certificate name so that in alphabetical order it becomes first on the list in Med-eBase. There is also the option to customise certificates.

9. Data Export

9.1. Production of an Asset Report

The results stored in a database can be exported as a CSV file from Med-eBase. However, before creating the CSV file the data can be filtered, to do this, use the binoculars in the tools menu to display the search window. The Browse Assets window can be used to select a section of the database to be exported, for example assets by date tested or test date due:

File Edit Tools Help	
🗟 🗟 🗟 🏭 💹 🛅 🛷 🗟	
Browse Assets &	
Asset Name:	1
Description:	2
Client:	3
Site:	4
Location:	
Manufacturer:	5
Model:	6
Serial No.:	7
Service Code:	8
Re-test Date from: 01/01/2000	9
To: 🔲 01/01/2000 🗸	10
Overall Status:	
Reset Search	11
	12

With your data filtered, if required, right mouse click on an asset and from the dropdown select Display Columns.

	Status	Name	Description		Last Test	Ret	est Date	Client	Site	Location	Manufacturer	
1	P	125876	5 Lead ECG	1	1/02/2014	11/08/	2014	Broomfield	EBME	Workshop	SP02	
2	P	65807	3 Lead ECG	2	20/09/2013	20/03/	2014	Client 1	Hospital 1	Ward 4	DATEX OHMEDA	١
3	P	45287		2	25/09/2013	25/03/	2014	Client 1	Hospital 1	Ward 4		
4	×	5147	1B	2	21/10/2013	21/04/	2014	Client 1	Hospital 2	Ward 1		
5		ad16		1	2/02/2014	12/02/	2015	Client 1	Hospital 3	Workshop		
6	P	ad17	DEFIB	1	9/11/2013	19/11/	2013	Client 1	Hospital 1	Ward 3	Mindray	
7	×	15786	MONITER	0	Add New Asse		2013	Client 1	Hospital 1	Ward 2	DATEXOHMEDA	
8	P	25894		õ	Delete Asset(s)		2013	Client 1	Hospital 1	Ward 1	DATEXOHMEDA	
9		258741	MONITER	b y	Upload		2014	Client 1	Hospital 1	Ward 1	DATEXOHMEDA	
10		011012	230	3	Export Asset(s)		2014	Client 1	Hospital 2	Ward 2	ConMed	
11	P	01234	ESU	8	Print		2014	Client 1	Hospital 2	Ward 1	Covidien	
12		12548	ESU	_	Display Colum	ns	2014	Broomfield	Theatre depart	Theatre 1	Covidien	
13	×	085123	ESU	2	29/08/2013	29/05/	2014	Client 1	Hospital 3	EBME	AESCULAP	

Selecting Display Columns produces a filter window which can be used to select the columns (data) that is required in the csv output. Select or deselect the options using the tick box and use the "Update and Close" button to save / close this window.

Show Status Colur	nn
Show Name Colum	n
Show Description (Column
Show Last Test Co	lumn
🔽 Show Retest Date	Column
Show Client Columner	n
Show Site Column	
Show Location Col	umn
Show Manufacture	er Column
Show Model Colum	in
Show Serial Number	er Column
Show Service Code	e Column
Show Deleted Loca	ation Column
Select All	Select None
Update and	d Close

Selecting the Export Table to CSV icon (blue square with a green arrow) allows the Asset List to be saved as a CSV file.



The format of the filename to be exported is "AssetList_<DATE>.csv", however, this can be changed if necessary. Browse for an appropriate location to save the file.

1	Α	В	С	D	E	F	G	Н	1	J	К	L	М
1	Status	Name	Descriptio	Last Test	Retest Dat	Client	Site	Location	Manufact	Model	Serial Nur	Service Co	ode
2	Pass	125876	5 Lead ECO	****	*****	Broomfiel	EBME	Workshop	SP02	S5	741256		
3	Pass	65807	3 Lead ECO	****	****	Client 1	Hospital 1	Ward 4	DATEX OH	S5	102053		
4	Pass	45287		*****	*****	Client 1	Hospital 1	Ward 4					
5	Fail	5147	1B	*****	*****	Client 1	Hospital 2	Ward 1			14524		
6	Pass	ad16		****	****	Client 1	Hospital 3	Workshop)				
7	Pass	ad17	DEFIB	****	*****	Client 1	Hospital 1	Ward 3	Mindray	Benehear	17		
8	Fail	15786	MONITER	*****	#########	Client 1	Hospital 1	Ward 2	DATEXOH	S5	25896		
9	Pass	25894	MONITER	****	****	Client 1	Hospital 1	Ward 1	DATEXOH	S5	25896		
10	Pass	258741	MONITER	****	*****	Client 1	Hospital 1	Ward 1	DATEXOH	S5	25896		
11	Pass	11012	ESU	****	*****	Client 1	Hospital 2	Ward 2	ConMed	5000	10014		
12	Pass	1234	ESU	****	*****	Client 1	Hospital 2	Ward 1	Covidien	Force FX	102541		
13	Pass	12548	ESU	****	*****	Broomfiel	Theatre d	Theatre 1	Covidien	Force 2	123684		

Finally, the CSV file can be opened in a software programme, such as Microsoft Excel, to manipulate your data.

Note: if using large numbers, for example a serial number without letters, spaces or other characters, if this CSV file is opened in MS Excel this can change the way the data is displayed (for example, 1234567890123 can be displayed as 1.234567E+12). To revert this back to the original format, in MS Excel, right click on the cell (or data cells) and using "Format Cells..." change the format to "Number" and "Decimal places: 0".

9.2. Exporting Multi-Flo Results

The results downloaded from the Rigel Multi-Flo can be exported as a CSV file from MedeBase. This will enable the user to manipulate and create graphs and trumpet curves from the raw infusion data.

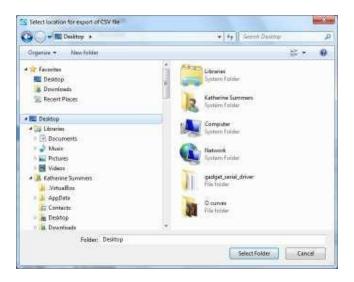
The format of the filename which is exported is "<ASSET ID>_<DATE>_<TIME>.csv".

It will export the last test result for the asset selected; this is because the export is located on the asset manager and not the result manager. The tests will be displayed horizontally with the data being displayed vertically.

When results have been saved in Med-eBase the asset can be selected and then the user can select to export the raw data file in CSV format for specific analysis.

		Status	Name	Description	Last Test	Retest Date	
Example Database.db	44	P	B.Braun	and the second	12/05/2014	12/05/2014	
	45	14	00000		09/01/2000	09/10/2000	
	46	P	03321		199/01/2000	09/10/2000	
	47	14	01		09/01/2000	09/10/2009	
	48	W.	BEXXKX2		19/05/2014	19/12/2014	[Separt and ()] to
	49	10	BEXXXX		19/03/2014	19/12/2014	
	50	No.	KUHEAPÓ		19/03/2014	19/12/2014	
	51	100	RRYSOPP		18/03/2014	18/12/2014	
	52	P	10		28/05/2014	28/02/2015	
	53	14	3354400		28/05/2014	28/02/2015	
	54	14	33544		28/05/2014	28/02/2015	
	55	.8	Detionilator				
	56	W.	WOP		96/06/2014		
	57	şu.	occlusion Biliaun		13/06/2014		
	58	1	BERKKIN WARLES		13:06:2114		
	Asset De	tale.					
	Asset	Detair 18	st Results Applied Pa	rta Test Seque	thet.		
	Des						
			BERAUN INPUSOMAT				Senal Naci
	3	Clerk					Hanubauen Nodel
		Stenare					Model Service.Codes
		stion Navie					Equipment Class
		Period					A7 Configuration
			Hest Period (months) a	the new Text	No Test	Stretlad	

Select a folder location to store the results.



The CSV file can then be opened in Excel from the selected location.

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3.5	Teams		B J B	1-1里。	3.4		-			rge & Certier			74 23	Constin	esal Faire	it. Cell in - Stylan -	Insett +	Delete Fr	Transfer To	2 Gest		ort 8. Fing Het * Select	R
	Chubicard.			Fare				Migrow	ėtė.			Manager			Shiel			CHU			: 6884	0	
	A1		8	& Mult	-Flo Flow \	(dume)																	
	A	8	c	D	÷E		6	5	11	1	1	×			60	N	0	P	1		-8	5	
1	ww.iti-FloFl	aw Volun	ne																				
	Flow Rate	100																					
8	Summary In	formatio	n .																				
2	Mean ml/	103,49																					
i)	Peak mI/h	124.3																					
1	instant ml	99.09																					
6	Volume m	8.61																					
0	Min ml/h	96.02																					
1	Pressure (6																					
2	Error A	werage																					
3																							
4	Time [Sec A	atumuta	leastant Ele	Average F	Pressure ()	-Axis]																	
s	1	0.05	¢	0	-97																		
6	2	0.05	93,99	93,99	12																		
3	3	0.12	\$47.46	147.46	-4																		
8	4	0.14	126.09	126.09	1																		
9	5	0.19	134.94	134.94																			
6	6	0.23	137.93	137.93	2																		
1	7	0.29	150.52	150.52	-24																		
2	8	6.34	153.76	153.76	-36																		
8	9	0.36	145.62	145.62																			
4	10	6.35	\$41.12	141.12	. J.																		
S.	31	0.43	\$40.92	\$40.92	2																		
£	12	0.47	141.81		-20																		
2	13	0,49	135.69	135.69	8																		
Ð.	14	0.53	135.76	135.76	. 0																		
9	15	0.57	137.99	137.99	-18																		
0	16	0.58	130.98	130.98	-7																		
1	17	0.62	130.6	130.6	-5																		
2	18	0.67	133.59	133.59	-26																		
8	19	0.68	129.68	129.68	5																		
4	20	0.72	129.58	129.58	0																		
s	21	0.77	132.05	132.05	-26																		
Û,	22	0.78	\$28.29	\$28.29	10																		
7	23	0.83	129.3	129.3	-9																		
8	24	0.87	130.14	130.14	-26																		
	- 25	0.68	106.09	206.09	3								11.5										
	By Scroll Lo		arear 0	43012014	09-1									141									10.0

Note: if using large numbers, for example a serial number without letters, spaces or other characters, if this CSV file is opened in MS Excel this can change the way the data is displayed (for example, 1234567890123 can be displayed as 1.234567E+12). To revert this back to the original format, in MS Excel, right click on the cell (or data cells) and using "Format Cells..." change the format to "Number" and "Decimal places: O".

10. Remote Control Rigel Multi-Flo

10.1. Gadget Serial

To use the remote-control mode the user will need to install the Gadget Serial V2.4 Driver. The driver should have accompanied your upgrade package and therefore the user will need to save the gadget serial folder either on their desktop or in an easy to locate destination of their choosing.

Equipment required:

- Multi-Flo
- PC running Med-eBase V2.6.0 (or above)
- Gadget serial driver install files
- USB Serial cable

To install the gadget driver the Multi-Flo needs to be turned on and connected to the PC using the USB serial cable.

On the Multi-Flo menu scroll down and select Remote Control. The Multi-Flo will then try to connect with the PC.

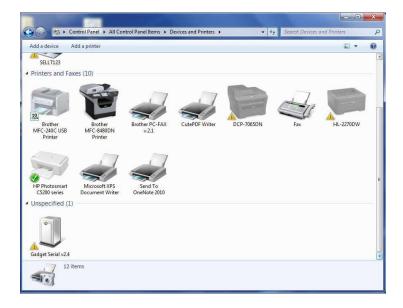
The PC will attempt to download the install drivers for the gadget serial. As the driver are located on the PC and cannot be found on the internet this step is not required. Click on the icon when it appears as below.

•	Installing device drive	er software 🌯 🗶
-	Click here for status.	

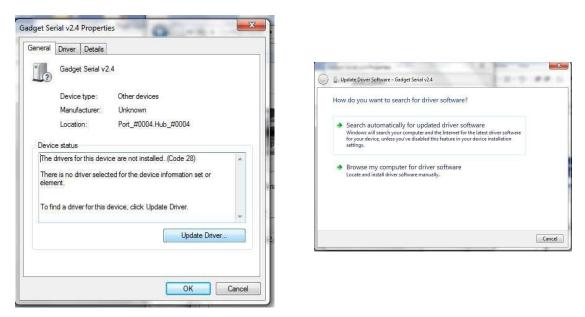
Select "Skip obtaining driver software" which is blue and underlined to stop widows looking for the driver as the Rigel device won't be able to connect to the PC while the computer is performing this task. Select Yes on the driver software installation screen to skip the driver update.

		Driver Software Installation	×
Driver Software Installation			skip getting driver Vindows Update?
Installing device driver s	oftware	software which may w	vides the latest available driver work better for your device. You
Gadget Serial v2.4 Obtaining device driver software Skip obtaining driver software fr	Searching Windows Update e from Windows Update might take a while. om Windows Update		Update later for the latest driver your device may not function at
	Close	1	Yes No

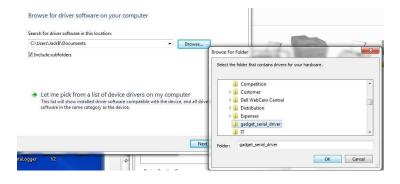
Once this is completed enter the Control Panel and go to 'Devices and Printers'. The gadget serial will be classed as an Unspecified Device. Right click on the gadget serial V2.4.0 and select Properties.



In the General Tab select Update Drivers and then choose 'Browse my computer for driver software'.

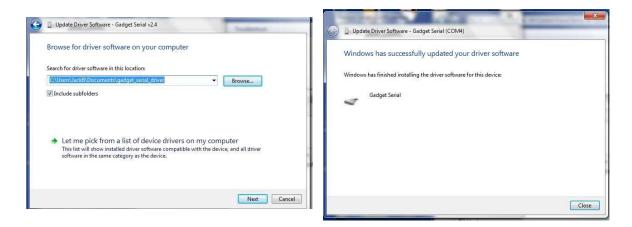


Select the folder where the gadget serial files are located. Select Ok to choose the folder and then Next.



RIGEL MEDICAL

Once the driver is installed select Next and then close the Control Panel.



To confirm the gadget serial driver is installed correctly:

Open Med-eBase V2.4.0 (or above) making sure the Multi-Flo is connected and in Remote Control Mode.

On Med-eBase select 'Download from Tester' by either selecting Tools > Download or the download icon.

Choose Multi-Flo as the instrument type and then select Gadget serial as the COM port.

Rigel Multi-Flo	
COM Port	
Gadget Serial (COM26)	•
Remote Mode Conne	ect to COM port
File Transfer	
Start File Tr	ansfer

Note: If Med-eBase was open while installing the gadget serial driver the user may be required to close Med-eBase and reopen it or Re-scan COM Ports to locate the gadget serial.

10.2. Creating Test Sequences

10.2.1. Create an Asset ID

Before connecting to the Remote-control dashboard, the user will need to create an Asset ID for the infusion device if there is not one already created.

On the main Med-eBase screen select 'Add New Asset' by either the³ icon on the righthand side or Edit > Add New Asset. The Asset details section will now be available to fill in.

🕹 🗟 🖓 🖓 🙇 🗑 🛷								
vse Assets 6	-	Status	Name	Description	Last Test	Retest Dat		
Example Database.db	15	P	47851	PROBE 123	15/01/2014	15/07/2014		
EBME	16	P	257	PROBE 123	05/02/2014	05/08/2014		
 Image: Theatre department Image: Second Second	17	P	2536	PROBE 123	10/02/2014	10/08/2014		
 Hospital 1 Hospital 2 	18	P	125	PROBE 123	10/02/2014	10/08/2014		
Hospital 3	19	P	236	PROBE 123	10/02/2014	10/08/2014		
 B HOSPITAL 12 Site 1 	20	×	3525	PROBE 123	10/02/2014	10/08/2014		
WARD 5	21	pa	125876	5 Lead ECG	11/02/2014	11/08/2014		
W Recycled	22	*	45621		05/03/2014	05/09/2014		-
	23	1	CM123	CME pump	12/03/2014	12/12/2014		
	24	P	01928	Infusion pump	12/03/2014	12/12/2014		
	25	×	N0978	Infusion device	12/03/2014	12/12/2014		
	26	P	Q123	Infusion device	12/03/2014	12/12/2014		=
	27	×	N6474	Infuson	12/03/2014	12/12/2014		
	28	0	defib2		08/01/2014	08/01/2015		
	29	P	56		10/02/2014	10/02/2015		
Ī	Asset Det							
	Asset1	Road St.	st Results Applied Parts To	est Sequence				
	Deta							
	1 23	sset Name:				Serial No.: Manufacturer:		
		Clent:						•
		Site Name:						
	Loca	tion Name:				Equipment Class:		
	Test	Period				AP Configuratio	n	
		Re-te	st Period (months): 0 🔹 Nex	t Test:				View
	-							

10.2.2. Connecting the Multi-Flo to Med-eBase V 2.4 (or above)

Turn on the Rigel Multi-Flo and select Remote Control from the main menu.

Connect the Multi-Flo to the PC using a USB serial cable.

To run Multi-Flo remote control open Med-eBase V2.4.0 (or above) and select 'Download from Tester' in Tools > download or the ⁴⁷. Choose the Multi-Flo from the dropdown instrument type list.

Then select the gadget serial as the COM port. If gadget serial port is not show you may need to re-scan COM ports. Then select 'Remote Mode Connect to COM port'.

Download from Tester	17.
nstrument Type	
Rigel Multi-Flo	
OM Port	
Gadget Serial (COM26)	9
Remote Mode Connec	t to COM port
ile Transfer	
Start File Tra	nsfer
	<u> </u>
-scan COM Ports	Cancel

The Multi-Flo dashboard window will appear with details of the Multi-Flo and available channels.

Multi-Flo Manager Windo	w	- Anna	(Annual State		Annual Case	
Multi-Flo S/N: 44e-0662						
	Occlusion Test Add PCA Test]				Start Test Sequence Close Manager
Channel 1 : 44E-0639	Channel 2 : 46E-0482	Channel 3 : 36E-069	19 D Channel 4 : 44	E-0638		
Sequence Name						

10.2.3. Creating a Test sequences

From the remote-control dashboard, the user can create Flow/Volume, Occlusion and PCA Tests on any available channel by firstly selecting the channel and then adding the appropriate test.

Multiple tests can be inserted by clicking on Add test and the sequence order can be moved by dragging the test tabs to the desired location.

low / Volume Test Add Occ					le le	tart Test Sequence Close Ma
Channel 1 : 44E-0639	Channel 2 : 46E-0482	Channel 3 : 36E	-0699 Channel 4 : 44E-4	638		
quence Name						-10
Flow / Volume Test 🖾	Occlusion Test	PCA Test 🖸	Flow / Volume Test	Flow / Volume Test	Occlusion Test	
ation					Te	st Name
Configuration	Flow Rate	100.00 🔮 ml/h	Duration Type	Time Based 👻		Start Test
					C	Stop Test
Graphs	Back Pressure	0.00 🗘 mmH	g 🔹 hours	0		
	Sampling Window	30 🔅 secon	ids minutes	15		
	Upper Limit %	0	seconds	0		
	Lower Limit %	0				
	Error	Instant 💌				
Test Results						
Elapsed	d Time 00:00:00	Re	maining Time 00:0	0:00		
Mea	n ml/h 0.00		Peak ml/h 0.00		Instant Error % (0.00
Instant Flow	w ml/h 0.00		Volume ml 0.00		Min ml/h (0.00
Back Pressure	mmHa 0.00					

Note: User Tests cannot be added to a sequence in the Multi-Flo Dashboard. This can only be inserted in the Global Test Sequence menu.

The context menu allows the user to select multiple options for individual tests and sequences within the test set up:

- Test Name' is a single test configuration.
- 'Sequence Name' is a list of test configurations.
- 'Import' will load the test or sequence into the channel.
- 'Export' will save the test or sequence from the channel.

To activate the context menu the user needs to be on the configuration test tab. Right click anywhere on this screen to show the context menu.

This allows the user to edit, and copy Test sequences and tests between channels.

w / Volum	ne Test Add Occlusion Test Add PC	CA Test					Start Test Sequence Close N
nannel 1	: 44E-0639 Channel 2 : 46E-0	482 DChan	nel 3 : 36E-0699	Channel 4 : 44E-0	1638		
ence Nam		-			_		
Flow / Va	olume Test 🗵 📄 Occlusion Test	PCA T	est 🔛 D	Flow / Volume Test 💌	Flow / Volume T	est 🔝 📔 D Ocdu	sion Test 🗵
000							Test Name
Configuration	Sequence +	Rate 100.00	🗧 ml/h	Duration Type	Time Based 🔹		Start Test
	Сору		_	_			Stop Test
Graphs	Paste Back Pre	ssure 0.00	mmHg •	hours	0		
	Sampling W	ndow 30	seconds	minutes	15		
					Annual .		
	Upper Li	nit % 0	4 *	seconds	0		
	Lawar I.	nit% 0					
	Lovie L	ant ve U	<u>*</u>]				
		Error Instant	•				
Test	Results						
	Elapsed Time 00:0	0:00	Remain	ning Time 00:0	0:00		
	Mean ml/h 0.00			Peak ml/h 0.00		Instant Err	or % 0.00
	nstant Flow ml/h 0.00		V	olume ml 0.00		Min	ml/h 0.00
Back	Pressure mmHg 0.00						

Individual Tests

Each individual test configuration has a "Test Name" which can be overwritten to indicate the test name.

Individual tests can be copied and paste into different channels or to repeat similar test set ups on the same channel. The user will need to add a test and then right click to open the context menu and select copy and then paste into the desired location.

Individual tests can be removed by clicking on the [X] on the configuration tab.

Test Sequences

Test Sequence can be given unique names by entering the name in the "Sequence Name" field.

Test sequences can be exported into the main Global Test Sequence of Med-eBase. From here they can be used in the Multi-Flo dashboard, uploaded directly to a Multi-Flo unit or transferred to different PCs. The import function allows saved sequences from either the Multi-Flo dashboard or Global Test Sequence menu to be inserted into any channel.

Note: Only Multi-Flo test sequences can be imported into the remote-control Multi-Flo dashboard

The user can also create test sequences from the main Med-eBase window as a Global Test Sequence. Please see Chapter 5 of for more details on creating sequence in this manner.

Flow/Volume Test

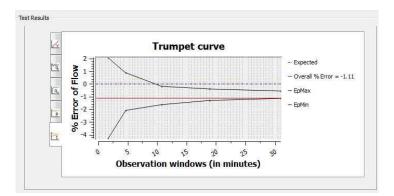
The Rigel Multi-Flo can measure the instantaneous flow at a resolution between 10µL/hr to 1500ml/hr. In addition, the flow rate can be viewed based over an average period which is user selectable, as well as detecting peak and minimal flow rates on real time curves Instantaneous flow measurement gives the benefit of quicker test times at low flow rates with maintained accuracy.

ow / Volume Test Add C	Channel 2 : 46E-0482	annel 3 : 36E-0699	Channel 4 : 44E-0638		Start Test Sequence Close N
uence Name Flow / Volume Test 🔀					
Configuration	Flow Rate 100.00	🗘 ml/h	Duration Type Time Ba	sed 💌	Test Name
2507	1002020	123			Start Test
Graphs	Back Pressure 0.00	🗘 (mmHg 💌	hours 0	(A) (V)	
0	Sampling Window 30	seconds	minutes 15	*	
	Upper Limit % 0		seconds 0		
	Lower Limit % 0	\$			
	Error Instant	•			
Test Results					
	ed Time 00:00:00		g Time 00:00:00		
	an ml/h 0.00		ak ml/h 0.00		Error % 0.00
Instant Flo	ow ml/h 0.00 e mmHg 0.00	Volu	ume ml 0.00		Min ml/h 0.00

The test configuration tab allows the user to set the flow rate, back pressure, sampling windows and also upper and lower limits for the test which are specified by the manufacturer. The test duration can be based on time, volume or manual stopped by selecting the appropriate option from the dropdown list.

The test can be given a memorable name in the 'Sequence Test' field so that it can be import or exported to create sequences.

During testing instantaneous results are shown in the lower half of the screen and graphs can be viewed in the 'Graphs' tabs including accumulated volume, instant flow, average flow, pressure and trumpet curve.



Occlusion Test

The Multi-Flo Occlusion test simulates an obstruction in the infusion process and monitors the variation in pressure due to the blockage. Most infusion devices have the ability to detect this obstruction and provide an occlusion alarm. The occlusion test is able to test this alarm feature in infusion devices.

Flow / Volume Test Add Occlusion Test Add PCA Test	Start Test Sequence Close Man
Channel 1 : 44E-0639 Channel 2 : 46E-0482 Channel 3 : 36E-0699 Channel 4 : 44E-0638	
equence Name	
Occlusion Test 📓	
ttan	Test Name
Services of the service of the servi	Start Test
and the state of the state	Stop Test
Grants	
Expected Pump Occlusion Pressure 0.00 🔅 mmHg 👻	
(alarm limit)	
Upper Limit 0.00 🔤 mmHg	
Lower Limit 0.00	
Test Results	
Infusion Pump Type	
	eak mmHg 0.00
Current mmHg 0.00 P	

For the occlusion test the user must specify in the configuration tab whether the infusion pump has manual or auto rewind occlusion functionality.

Enter the excepted alarm value and the acceptable limits for the device under test.

Note: There is a choice of units for pressure including mmHg, PSI, kPa and Bar.

The test can be given a memorable name in the 'Sequence Test' field so that it can be import or exported to create automated sequences.

During the test instantaneous results are shown in the lower half of the screen and graphs can be viewed in the 'Graphs' tabs including accumulated volume, pressure and also tabulated values.

If the infusion pump is manual, then the user must 'Stop' the test when the alarm sounds to record the occlusion pressure level.

For pumps which has auto rewind functionality when the alarm sounds the pump reverses the flow momentarily to relieve the occlusion and reduce the pressure. The test will stop, and the results will display the maximum pressure at which the pump initiates the rewind function.

PCA Test

The PCA test determines the additional volume delivered on top of the basal flow rate set by the user. The additional volume or sometime referred to as BOLUS, is an indication of the correct safety settings of an infusion device. The user needs to enter the basal flow as the basal flow rate setting is used to determine the additional volume being delivered.

ow / Volume Test Add	Occlusion Test Add PCA Test				Start	Test Sequence Close Ma
Channel 1 : 44E-0639	Channel 2 : 46E-0482 Channel 3 : 36E	0699 Dchannel 4 : 4	Æ-0638			
uence Name						
PCA Test 🔀						
5					Test Name	1
Configuration	Basal Flow Rate 30.00 🗘 ml/h	Duration Type Time	Based 🔻			
Conf			1000			Start Test
52	Bolus Volume 0.10	hours 0				Stop Test
Graphs	Total Volume 0	minutes 15				
	Upper Limit % 0	seconds 0	-			
	Lower Limit % 0					
Test Results						
lest Results						
	Elapsed Time 00:00:00		Bolus	Volume	Flow	Duration
	Remaining Time 00:00:00					
Ir	stant Flow ml/h 0.00					
	Total Volume ml 0.00					

The test configuration tab allows the user to set the basal flow rate, bolus volume and total expected volume delivered during the test. The acceptable limits for the test will also need to be selected based on manufacturer's specification.

The test duration can be based on time, volume or manual stopped by selecting the appropriate option from the dropdown list.

The test can be given a memorable name in the 'Sequence Test' field so that it can be import or exported to create automated sequences.

During the test instantaneous results are shown in the lower half of the screen and graphs can be viewed in the 'Graphs' tabs including accumulated volume and instant flow. Tabulated results will be shown on the lower half of the screen following each bolus delivery and includes the bolus volume, the flow rate and the duration of the bolus and mean values for all bolus measurements.

The user can carry out tests individual or as a whole test sequence. When conducting a **single test select 'Start Test' and then sele**ct the Asset ID associated with the device being tested. The search criteria can be used to find the correct Asset ID scroll to select the asset ID. If an asset has been created for this device, then the user will need to add an asset in the main Med-eBase menu. See Chapter 9.2.1 for more details of creating assets.

earch Criteria	Search Reset	
Name	Description	*
2536	PROBE 123	
125	PROBE 123	
236	PROBE 123	
3525	PROBE 123	
keith		
10	Infusion	
CM123	CME pump	_
01928	Infusion pump	
N0978	Infusion device	
N6474	Infuson	
Q123	Infusion device	
A14527	BBraun	
45621		-

Once a test has started the Multi-Flo device will go to the appropriate test screen: Flow/Volume, Occlusion or PCA and the Elapsed Time field will indicate 'Ready' until the fluid enters the unit.

Note: If an asset ID has not been created the user needs to go back into the Main MedeBase window and create an Asset ID for this test.

10.2.4. Running a Test Sequence

Once a test sequence has been created the user will select Start Test Sequence. When the sequence has started the screen with go to the first test in the sequence regardless of what screen the dashboard was in prior to starting the sequence.

Note: The infusion device will need to be set up with the flow rate, bolus delivery details etc. matching the appropriate test set up created on Med-eBase.

Note: The infusion device can be activated before or after the test is set up as the Multi-Flo will only start recording when fluid is delivered through to the device.

The active test is indicated with a blue circle and all other tests are greyed out and cannot be altered during a test sequence. Other channels are available to set-up edit and start testing while the Multi-Flo is testing on another channel.

a 698 x - 496 - 6662 ave 7 millione: Test Additionations Test Addit PCA Test				Start Text Segurnoe Once h
Charrel 1: 48:0139 D Charrel 2: 48E-0402 D Ch	arnel 1 : 36E-0699	Channel 41 + E-0638		
uence Name				
Pow/ Volume Text D Collaber Sat D /	Cartest			
a				Techtigen
Plaw Rets (100.00)	n/h	Duration Type: Time Recett	+	the flot
0				Stup Test
Prov Ref (101.00)	(0) WHQ: *	hours in		
CONTRACTOR AND A DATA AND AND AND AND AND AND AND AND AND AN	1000000			
Sampling Window	ancorda	renulee		
doper Unit % II	10	aeconds in		
Lovaer Livet % (g	111			
Griar Avenig	E.8.			
Test Results				
Elapsed Time 00:00:08	Remainin	g Time 00:00:52		
Mean ml/h 89.80	Pe	ak ml/h 89.80	Average	Error % -10.20
Instant Flow ml/h 89.80	Vol	ume ml 0.20		Min ml/h 89.80
Back Pressure mmHg -3.00				

The user can look at the real time graphs during each test. More detail is provided in Chapter 8.2.6.

Once a test has completed the Multi-Flo Dashboard will show a confirmation that the test has completed and gives the user the options to:

- Continue to the next test in the sequence
- Exit sequence

filo 6/8 i me 0662						
	Minimum Test, And PCA Test				start Text Sequence 0	Tale Ha
Charmel 1 : 442-0539	D Cravel 21 4E 0482 D Ch	annel 1 : 36E-0699	Diamei+1+€0638			
equence Name						
Plow / Volume Test	D column St. D /	Califetti				
Elsa.						
1 AL					Tabl Same	
ni	Play Rate (001/00)	milti	Ouration Type Time Bas	est +1	Wary Tool	
ð					Atom Test	
Gades Configuration	Bed Pressure (1.00	weeks	hours p			
	Sempling Wordow	exconds	rminules. 👔	E.		
	Upper Drift %	ĺ.	secondo 🗉		Test Complete	
					Start the next test	
	Lower Limit %				in the sequence?	
	Byor average	2			Yes	
	Para leverate .				Na	
Test Results						
Elap	sed Time 00:01:00	Remain	ing Time 00:00:0	0		
M	ean ml/h 99.29	F	eak ml/h 103.44	10	Average Error % -0.71	
Instant F	low ml/h 100.32	V	olume ml 1.65		Min ml/h 96.62	
Back Pressur	re mmHg -15.00					

If the user chooses to continue to the next test the Manger will move to the next test tab and again all other test tabs are greyed out and unavailable to edit.

Flave / Violante Test)	AM Community Test AM PCA Tes				Start Tes	st.Sepance Onle H
Channel 1: 448-053	Dowel 21 40 0412	Channel J + 36E 0899	David+:+€9638			
equence Name						
- the / VAAN To	er le boland het	PCA Test				
5					Sections	
100	Besal Plov A	ate million in num	Duration Type Termitistent +			art Tart
8	10.0 × 10.0	Ne (2.18 18)	hiurs I			no Test
oxis coluctor	Days ros	se (vin 11)	mus II		50	00 (6)
60	Total vok	#e [0]	renutes 15			
	(Borney) and	N B TR	secondo (1)			
			1000400			
		5 0 10				
	i over Land		36340 (r			
Test Result	i over Land					
Test Result	Lover Land	a	Bolus	Wolume	Row	Duration
Test Result	i over Land	a		Watume	Flow	Duration
Test Result	Lover Land	00:00:01	Bolus	Valume	Figur	Disotion
Test Result	LiverLant ts Elapsed Time 1	00:00:01	Bolus	Volume	Flow	Duration
Test Result	LiverLant ts Elapsed Time 1	00:00:01	Bolus	Volume	How	Puration
Test Result	twertun Is Elapsed Time I Remaining Time I	00:00:01 00:14:59 0.00	Bolus	Volume	How	Duration

If the user selects No, to end the test sequence that the test sequence will stop, and all tests will again become available to change.

After the test sequence all tests will become available, and each test tab will indicate whether the individual tests passed or failed.

In (YOURE ISI	Add Ocdusion Test Add PCA Test					55	ari Test Sequence	One
Channel 1: 445-063	5 D Clariel 21 4E 0412 D C	harrel 1 : 34E-049	Damei+++	€9538				
uerke t								
Pion / Volume Test	t 🖾 🛛 💾 Oodusion Test 🛄 🛛 🏴 P	CA Text 🚺						
5						1000		
100	Basal Flow Rute	nth 🗄 🚥	Duration Type Time	illiand +			Dart Test	
ð	Bolus Yolume 11	# 117	heres II			1	Stop Test	
Gades. Confusation						M.		
5	Total volume	- 181	renutes a					
	Loper Link % ±	-18	pecando II					
	Lower Land %	16						
Test Resul		10						
Test Resul	ts			Bolus	Walume	Flow	Duratu	1
Test Resul				Bolus Mean	Volume 2.87	Flow 607.76	Duratu 17	'n
Test Resul	ts Elapsed Time 00:02	2:00						м
Test Resul	ts	2:00		Mean	2.87	607.76	17	91
Test Resul	ts Elapsed Time 00:02 Remaining Time 00:02	2:00 0:00		Mean	2.87	607.76	17	91
Test Resul	ts Elapsed Time 00:02	2:00 0:00		Mean	2.87	607.76	17	91

10.3. During Testing

The user can move between the configuration and graph tabs and toggle between the various graphs and tabulated results depending on the type of test.

When a test is complete if it was time or volume based it will stop automatically.

For manual stop tests the 'Stop Test' Button needs to be pressed to indicate the end of the test.

If a test is stopped before either the time or volume in the setup has completed the user has the option to save the incomplete test results.

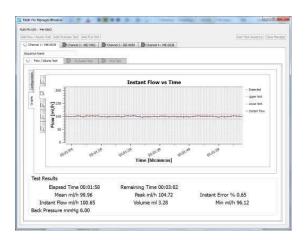
Test Stop	ped	
	ent test has bee mplete, do you ts?	

In case of an emergency all channels can be stopped by selecting the RED button on the Multi-Flo Infusion Analyser.

Flow/volume

The user can toggle between instantaneous and average flow vs time graphs, which show the acceptable limits; the pressure during the test and also the trumpet curve showing the percentage error for the 2nd hour of testing.

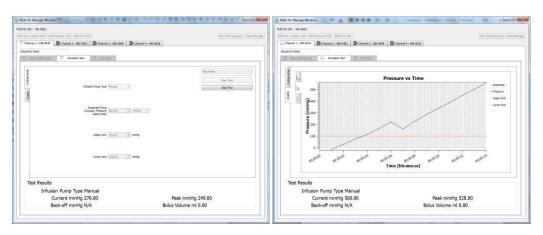
The lower half of the test configuration screen shows the instantaneous results of instant, mean, min and peak flow (ml/h), total volume (ml), back pressure (mmHg) and error [instant or average flow or expected volume depending on set up choice],



Occlusion

The user can toggle between the pressure and the accumulated flow vs time graph, which shows the acceptable limit.

The lower half of the test configuration screen shows the type of occlusion test carried out (manual or auto rewind) and the instantaneous results of current peak pressure and back off pressure (mmHg) and bolus volume delivered once the occlusion has stopped.

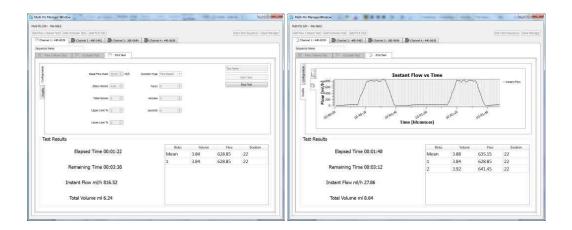


<u>PCA</u>

The user can toggle between the pressure and the accumulated and instant flow vs time graphs, which shows the acceptable limits. The bolus can be clearly shown on the instant flow vs time graphs

The lower half of the test configuration screen shows a bolus summary in tabulated format including average results of: mean volume, flow and duration as well as stats for each individual bolus measured. Test carried out (manual or auto rewind) and the instantaneous results of: current peak pressure and back off pressure (mmHg) and bolus volume delivered once the occlusion has stopped.

Test results information is also available including elapsed and remaining time, instant flow (ml/h) and total volume (ml).



Viewing graphs

The user can toggle a full graph and 60 second default view by selecting the graph by single left mouse button click and you can then press the spacebar to toggle between the two options.

The full data window will automatically scale the window using the full height of the graph to display the data.

The 60 second window will automatically scale the window to track the data and keep the data within the window; this also includes the expected, lower and upper limits.

On the graphs the user also has the options to do:

- Scroll by holding the left mouse button down on the graph and drag up, down, left and right to scroll the graph.
- Zoom in and out of the full data or a 60 second window:

Double left mouse button click will zoom in and double right click will zoom out on the mouse cursor point on the graph.

The user can draw around an area of interest and select CTRL and then hold the left mouse button down to create a range to zoom in.

Mouse wheel enables zoom in and out of the graph.

Hold the right mouse button down and push forward or pull back on the mouse to zoom in and out.

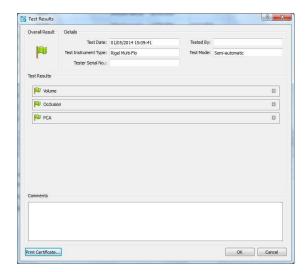
10.4. Reviewing Results

Once the test is complete the user may close the dashboard window or view the results within the dashboard

The test results can be view in the main Med-eBase software by selecting the Asset ID and then the Test Result tab.

Within the test results tab the sequence will be shown as one item with a pass or fail status. All tests or sequences carried out under that Asset ID will be shown in the results tab. All items will have the test date and instrument type shown to indicate the testing carried out.

To view a particular test or sequence either double clicks on the item or select Results... from the right-hand side of the asset details window.



A progress bar may appear while the test results are created depending on the amount of data and test length.

Expanding the test shows the summary of the test results, graphical results and when applicable tabulated data similar to the options available during testing. The pass or fail indication will be shown for each individual test within a sequence.

Flow	Occlusion	PCA							
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<u> Pass / Fail</u>

Once a test has completed the Med-eBase Multi-Flo Dashboard will indicate whether a test has passed or failed with a green flag icon or Red Cross in the tab for the specific test.

If no limits are set, then the test will automatically pass. The pass-fail logic for each test type is defined as:

Flow Volume

- The Error in configuration can be setup for Instant, Average and Expected.
- Instant flow is checked all the time and when the data is outside of the limits for more than 3 consecutive seconds it will be a fail.
- Average and Expected are checked on the last data value and outside of the limits it will fail.

Occlusion

• Performed on the peak of the test if it is outside of the limits, it will be a fail.

PCA

• Performed on all bolus peaks of the test and if any are outside of the limits it will be a fail.

10.5. Exporting Multi-Flo Results

The results downloaded from the Rigel Multi-Flo can be exported as a CSV file from MedeBase. This will enable the user to manipulate and create graphs and trumpet curves from the raw infusion data.

The format of the filename which is exported is "<ASSET ID>_<DATE>_<TIME>.csv".

It will export the last test result for the asset selected; this is because the export is located on the asset manager and not the result manager. The tests will be displayed horizontally with the data being displayed vertically.

When results have been saved in Med-eBase the asset can be selected and then the user can select to export the raw data file in CSV format for specific analysis.

		Status	Name	Description	Last Test	Retest Date	
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	49	pite -	BBIOKK		19/03/2014	19/12/2014	
	50	140	KUHEAPÓ		19/03/2014	19/12/0014	
	51	pite .	RRYSOPP		18/03/2014	18/12/2014	
	52	PD .	10		28/05/2014	28/02/2015	
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Select a folder location to store the results.



The CSV file can then be opened in Excel from the selected location.

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	10	0.39	141.12 140.92	541.12 140.93	7																		
	11	0.43	141.81	141.81	-20																		
	13	0,49	135.69		-20																		
	14	0.53	135.76		0																		
	15	0.57	137.99		-18																		
	16	0.58	130.98		-7																		
	17	0.62	130.6	130.6	-5																		
	18	0.67	133.59	133.55	-26																		
	15	0.68	129.68	129.66	5																		
	20	0.72	129.58	129.58	0																		
	21	0.77	132.05	132.05	-26																		
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11. Troubleshooting

Please ensure you have the latest version of Med-eBase V2 installed. The latest version is available to download from <u>www.rigelmedical.com</u>. This will install over your current version without affecting your data or license keys.

For technical queries, please raise a support ticket on our website

For sales enquiries, including purchasing additional licenses, please email <u>sales@rigelmedical.com</u>



Rev 2