



**Rapid Test**

**Test Unit Installation**

**(Models RTTUWF, RTMC8, RTRB24)**

## Version Control

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## ***Description***

The Rapid Test system provides rapid RCD test functionality at the local switchboard.

It is designed to be used in conjunction with a switchboard app on a tablet.

There is no need to locate and test individual circuits from the field.

There are 24 channel modules which provide independent channel selection. For ease of installation they are DIN rail mounted, measuring approximately 203mm long.

The Rapid Test communications bus connection is conveniently achieved through the use of RJ12 connection allowing similar units to be quickly looped together.

## ***Product Range***

- **RTUWF** Wi-Fi Master Module (220-240V, 50-60 Hz)
- **RTMC8** Wi-Fi Master and 8 Channel Module (220-240V, 50-60 Hz)
- **RTRB24** 24 Channel Module (220-240V, 50-60 Hz)
- **RTSDC** RJ12 Dust Covers
- **FL300** Communications Fly leads 300mm
- **USB** Universal Stacking Bracket (2)
- **RT005** Switchboard Sticker Pack (10)
- **RBL** RCD Barcode Labels (24)
- **RTSP** Surge Diverter

All available to purchase from the Rapid Test website:

[www.rapidtestsystems.com.au](http://www.rapidtestsystems.com.au)

# Features

## **Compatible Loads**

- Suitable for use with any existing RCD.
- Modules may be installed within a switchboard enclosure and do not need a separate enclosure of their own unless space is limited within the switchboard

## **Reset Button**

- Press and hold on power-up to reset to factory defaults. With the power off, press the reset button and hold it on. Turn the power on and release the button once the unit has powered up.
- Press when powered up to reset module.
- To deactivate the Wi-Fi, press and hold for 3 seconds when powered up.

## **Wi-Fi Activate Input**

- Use to “wake” the Wi-Fi on the RTTUWF / RTMC8 board. The Wi-Fi deactivates after approximately 15 minutes of inactivity.

## **Lockout Switch**

- This is an optional input which may be connected to a key switch or other dry contact switching devices to restrict operation of the RTTUWF / RTMC8 module.
- When this input is open the channel board modules will not be enabled.
- Bypass this feature by inserting a wire link between the terminals (refer to the diagrams in the installation instructions below).

# ***Installation Instructions***

## **Electrical Connection**

- Rapid Test modules should only be installed by a licensed electrician with suitable training in the operation and set up of this equipment.
- All wiring must be of suitable electrical rating for the installation purpose and must comply with local regulations.
- Connection and disconnection of Rapid Test modules should only be done with switchboard power turned off.

## **Power Supply**

- Only the main test unit (RTTUWF / RTMC8) requires 240Vac power.
- Connect the Line, Neutral and Earth terminals to a 240Vac supply in accordance with local wiring rules.
- It is recommended the unit is supplied from a dedicated circuit breaker where possible.

## **Wiring**

- It is recommended that the wiring for the Rapid Test RCD connections be done using orange wire to ensure it is easily identifiable amongst other switchboard wiring.

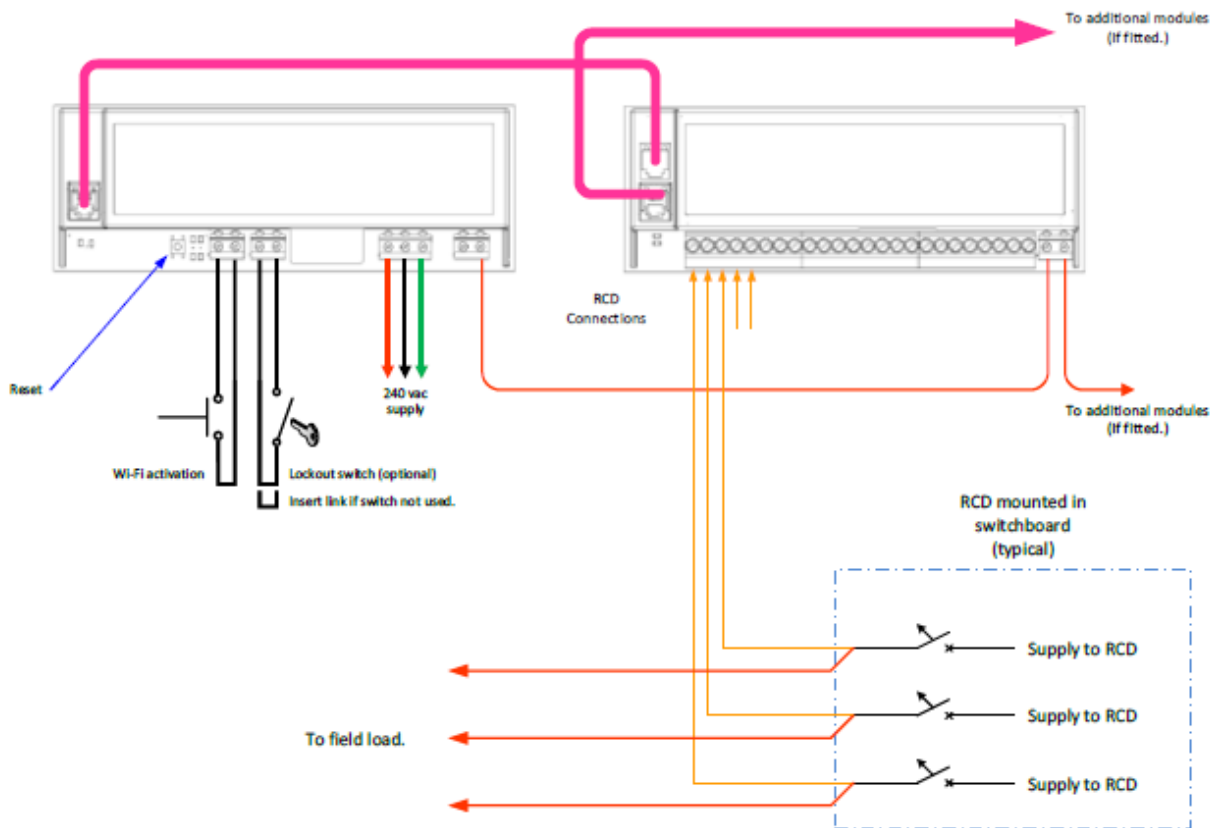
## **Test Bus**

- The test bus is daisy chained from the main unit (RTTUWF / RTMC8) to each of the channel modules (RTRB24) in turn and provides the required connection to the selected RCD under test at any one time.
- The test bus connection provides a looping terminal for easy connection of multiple boards.

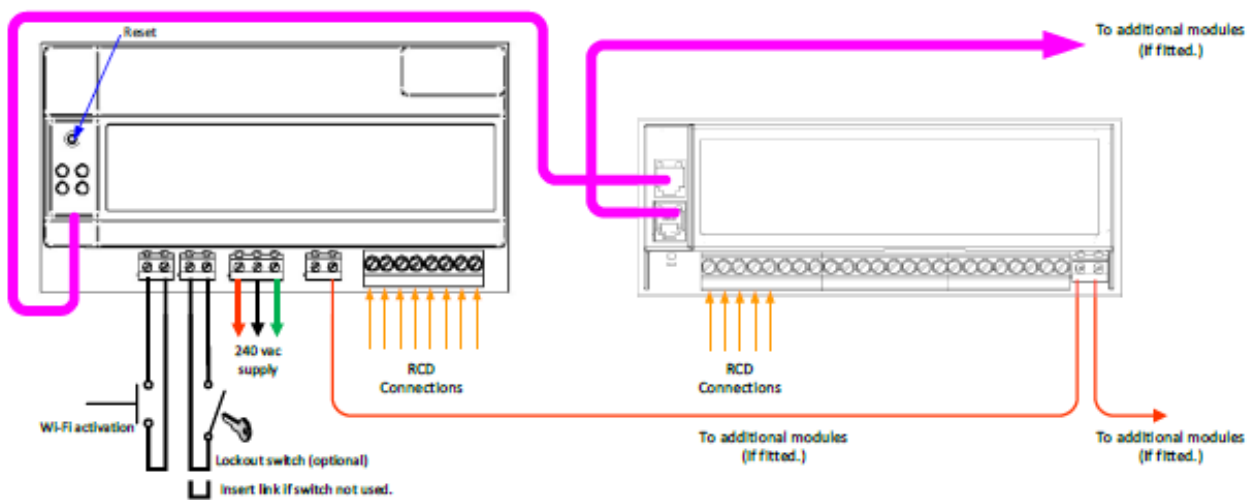
## **Communications**

- The communications bus connects the channel modules port on the main unit (RTTUWF / RTMC8) to the port labelled 'From Master / Previous Module' on the channel board (RTRB24) using the Rapid Test patch cable (RTCBL).
- Starting at the main unit connect the RTCBL to the 'From Master / Previous Module' port of the first channel module.

**RTUWF**

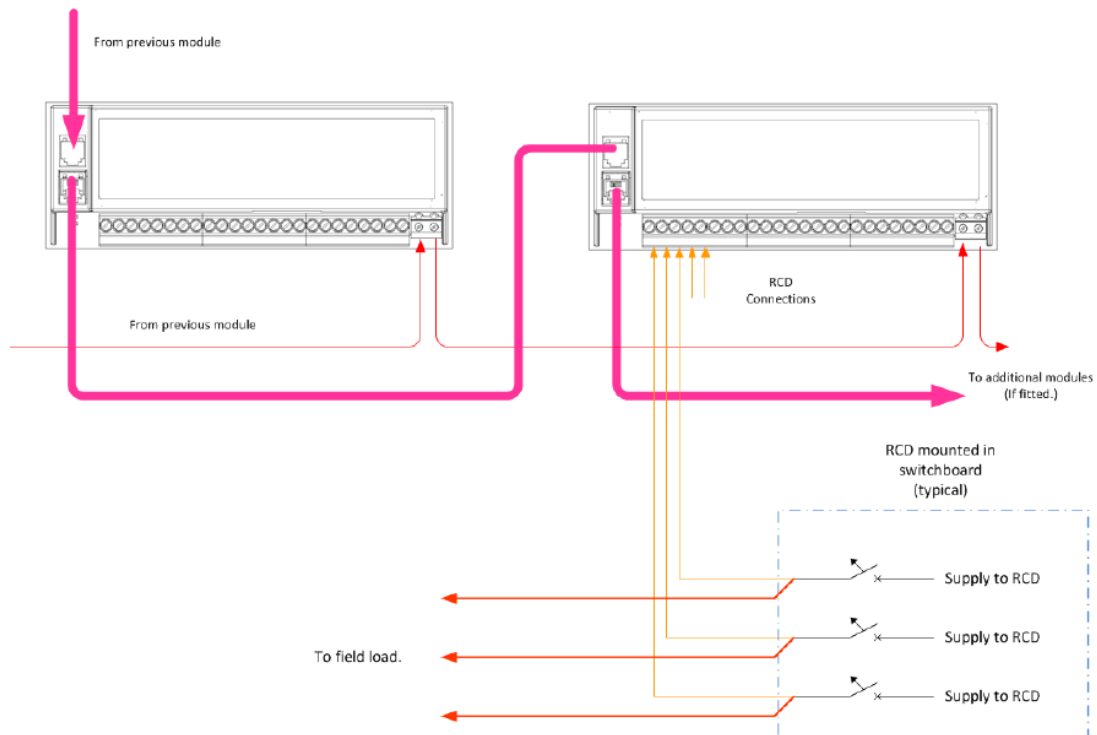


**RTMC8**





- Subsequent channel modules are connected from the 'Next Module' port to the 'From Master / Previous Module' port.
- The test bus connects between each module also shown in the diagram above and below.



### **RCD connections**

- Each RCD to be tested is connected to an individual channel on the channel board.
- The channel assignment is stored in the Master device by configuring it in the software.

### **Device Orientation and Environment**

- The Rapid Test modules should be installed either horizontally base down or vertically with the terminal connections to the bottom.
- The modules have a DIN rail clip style base to make installation easier.
- Channel modules should only be installed where they are free from excessive vibration and are not subject to any impact.

**NEVER ATTEMPT TO CONNECT OR DISCONNECT ANY RAPID TEST DEVICE WITH POWER TURNED ON.**

## ***Download the Rapid Test App***

Rapid Test can be programmed via the Rapid Test app. Download the required app as per the websites below depending upon the tablet / laptop type being used.

The links are also on the Rapid Test website.

### **Windows**

(A Windows 10 tablet or laptop is required)

[www.microsoft.com/en-au/store/p/rapid-test/9nblggh4sb5k?ocid=badge](http://www.microsoft.com/en-au/store/p/rapid-test/9nblggh4sb5k?ocid=badge)

### **Android**

[play.google.com/store/apps/details?id=rapidtest.rapidtest](http://play.google.com/store/apps/details?id=rapidtest.rapidtest)

### **Apple**

[itunes.apple.com/au/app/rapid-test/id1152822046?mt=8&ign-mpt=uo%3D4](http://itunes.apple.com/au/app/rapid-test/id1152822046?mt=8&ign-mpt=uo%3D4)

**REFER TO THE USER MANUALS FOR DETAILS ON HOW TO USE THE APP.  
DOWNLOAD FROM THE RAPID TEST WEBSITE.**

[www.rapidtestsystems.com.au/manuals](http://www.rapidtestsystems.com.au/manuals)

## Notes

- The RTTUWF unit can manage up to 10 RTRB24 modules in close proximity to the main test unit. The RTMC8 unit can manage up to 9.
- The installer must fix supply cables in the distribution board using cable ties or ducting as required by local wiring rules. Care must be taken not to allow copper strands to enter the RT unit's apertures.
- A maximum torque of 1.4Nm should be applied to the mains rated screw terminals.
- Rubber dust covers (RTSDC) should be inserted in unused RJ45 connectors, to stop foreign bodies from entering the unit. Always ensure these covers are installed when the unit is to be mounted inside a mains rated enclosure.
- Use copper wire only
- Do not attempt to open any Rapid Test module as they do not contain any user serviceable parts.
- The channel modules must be installed in such a manner as to avoid vibration and shock.
- RTTUWF is certified to AS/NZS 3100:2009 and is EMC compliant.
- RTMC8 is EMC and category III compliant.

# **Warranty**

## **Limited Warranty**

- Rapid Test Systems expressly warrants that for a period of one year from the purchase date Rapid Test products will be free of defects in materials (parts) and workmanship (labour)
- Defects occurring during the warranty period will be repaired or products will be replaced at Rapid Test Systems option and expense if Rapid Test Systems receives notice during the warranty period.
- Defective products must be returned to Rapid Test Systems with proof of purchase date.
- The product part replacement warranty is limited to replacement of parts at invoice value that prove to be defective in material content and/or workmanship under normal installations.
- Cost for damages and/or labour charges incurred in installation, repair or replacement are excluded from this warranty.

## **Warranty Exclusions**

- The foregoing express warranty is made in lieu of all other product warranties, express and implied including fitness and merchant ability.
- The express warranty will not apply to defects of damage due to accidents, neglect, misuse, alterations, operator error or failure to properly install products.

## **Limit of Liability**

- In no event will Rapid Test Systems or Seller be responsible or liable for special, incidental, or consequential losses or damages whether based in tort or contract.
- Fulfilment of Rapid Test Systems warranty obligation will be Customers exclusive remedy and Rapid Test Systems and Sellers limit of liability for any breach of warranty or otherwise.

# Warranty Form

**PLEASE COMPLETE THE FORM AND RETURN WITHIN 14 DAYS OF PURCHASE TO:**

**Rapid Test Systems, 80 Patterson Road, Bentleigh 3204, VIC**

Please retain receipt as proof of purchase.

<b><u>RAPID TEST SYSTEMS</u></b> <b><u>1 Year Warranty</u></b>	
<b>Product</b>	<input type="checkbox"/> (RTTUWF) Wi-Fi Master Module  <input type="checkbox"/> (RTMC8) Wi-Fi Master and 8 Channel Module  <input type="checkbox"/> (RTRB24) 24 Channel Module
<b>Barcode #</b>	
<b>Date of Purchase</b>	
<b>Name</b>	
<b>Email</b>	
<b>Address</b>	
<b>Installation Address</b>	

**Contact Us**

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