

## Using RVT-VMD Technology

### Welcome to WWEST

World Wide Electrical Safety Technology Pty Ltd (WWEST) is an electrical safety innovator and consultancy.

It has been researching, developing and evolving electrical safety products and technologies for the past decade and has designed a product that has the potential to change electrical safety in Australia and across the globe.

For a number of years, WWEST technology and products have been integrated into industrial and consumer applications.

WWEST is working with OEM's and seeking other OEM's to partner under licencing and JV arrangements to incorporate our unique RVT-VMD Technology in many industry and product applications.

WWEST offers a range of electrical safety consultancy services and products that include:

- Resolving problematic earthing installations/situations
- Electrical safety audits, consultancy and risk management
- Low voltage electrical safety for personnel and equipment
- RVT-VMD installation
- Earthed and non-earthed technologies

- Strategic planning, engineering and electrical problem solving
- Energy management solutions
- Electrical engineering consulting and project management

Our guiding philosophy is to ensure that electrical safety is at the highest possible level that it can be by mitigating the electrical safety risk especially in wet or problematic earth environments.



### World first - Class II RCD Protected Power Boards

#### Using RVT-VMD Technology

The WWEST Residual Voltage Technology (RVT) has been in development for a number of years. Initially developed a standalone power board style of product, WWEST has now further developed the RVT to be about the size of a postage stamp which enables it to be integrated in all electrical products from hairdryers, phone chargers and toasters to power tools and high voltage electrical infrastructure.

The RVT-VMD has been independently tested as a neutral-earth voltage sensing product and is the only product of its type on market.

The device has been tested by a NATA approved testing agency as a voltage monitoring device and is the only product of its type on the market. The RVT-VMD has been issued a Certificate of Suitability by NSW Fair Trading (CS10890N) and is approved to Australian/New Zealand's Standard 3100:2017+A1 and Australian/New Zealand Standard 3190:2016.

This device changes the functionality of a traditional RCD and provides an unprecedented level of safety to electrical

applications. The RVT-VMD when coupled with an RCD and the WWEST RVT-VMD, for the first time, enables high levels of electrical protection within all electrical earthing systems and has been categorised the World's first Class II rated RCD.



WWEST's RVT-VMD is the only fully tested and compliant electrical safety product of its type on the market

# Electrical safety paramount for Sydney Water

Sydney Water's Team Leader Tom McLoughlin discovered there was a problem with RCD's and had concerns for the safety of his team members in mobile vans when testing within a 'wet construction zone environment'. He recognised that there was an increased safety risk as the RCDs didn't work on isolated inverters in wet areas (with respect to the use of 240v and 110v water testing equipment and power tools). As a part of his Duty of Care responsibilities, he recognised that he had to investigate the safety non-compliance issue further.

Following a safety review, WWEST discovered that RCDs were not operating with inverters in Sydney Water's field-testing vehicles has led to the integration of new life-saving technology.

World Wide Electrical Safety Technology (WWEST) was commissioned to perform a safety review of low voltage power inverters installed in Sydney Water field-testing vehicles.

The major findings were:

- RCDs not operating with inverters in field-testing vehicles (110v-240V).
- RCDs do not provide electrical protection in 110v Inverters while using Class 1 appliances.
- WWEST RVT-VMD combined with an RCD provides electrical protection from 110v-240v.
- WWEST RVT-VMD combined with an RCD provides significantly higher electrical safety outcomes for both personnel and equipment, than RCDs alone.

WWEST was able to provide Sydney Water with a custom designed solution, involving the manufacturing, installation, and utilisation of a patent pending Voltage Technology - Voltage Monitoring Device (RVT-VMD).



An RCD combined with the RVT-VMD enhanced electrical protection across all 240v/110v applications. When an RCD and RVT-VMD are combined, the electrical safety outcomes for personnel and equipment, are significantly higher than RCDs alone.

The combined units enable the detection of both current and voltage. This creates a much broader range of fault protection than has previously been attainable and thus resolving the safety concerns and providing a peace of mind solution.

This installation and usage of WWEST's RVT-VMD by Sydney Water exhibits how this technology is working in practice.

To check out our video on Sydney water click the link:  
[https://youtu.be/kWAB\\_rD4Rqs](https://youtu.be/kWAB_rD4Rqs)

## Contact Us



### Wayne Callen

Director, R&D Technical Manager

E: [wayne@wwest.com.au](mailto:wayne@wwest.com.au)

M: +61 488 125 546



### Allan Edwards

Director, Business Development

E: [allan@wwest.com.au](mailto:allan@wwest.com.au)

M: +61 488 068 009



### Robert Zullo

Director, Operations & Finance

E: [robert@wwest.com.au](mailto:robert@wwest.com.au)

M: +61 402 265 094



### Sales Enquiries

E: [sales@wwest.com.au](mailto:sales@wwest.com.au)

## What's New

### Check out our latest videos:

#### Welcome to WWEST:

<https://youtu.be/IF1VpgCcirM>

#### How our product works:

<https://youtu.be/vtnphPDIPLA>

#### How WWEST started:

<https://youtu.be/ELVGZ3ncLAg>