

SAFETY AROUND MEDICAL DEVICES

**(IN ACCORDANCE WITH AS/NZS3551 &
AS/NZS3003**

Biomedical Servicing & Installations

- ⦿ Annual Testing Program for Medical Equipment onsite
- ⦿ WOF
- ⦿ Medical Equipment Validation
- ⦿ Maintenance, Calibration & Servicing
- ⦿ AS/NZS 3551 Technical Standard for Maintaining Medical Equipment
- ⦿ AS/NZS 3003 Electrical Installations around Patient Area

Definitions

- ⦿ Annual Biomedical Testing
 - Electrical Safety
 - Performance Verification
- ⦿ Calibration
- ⦿ Preventative Maintenance Servicing (PM)
- ⦿ Acceptance Testing
- ⦿ Repairs
- ⦿ Installation

Why is this necessary

- ⦿ Keep Patients Safe!
- ⦿ Keep Clinicians Safe!
- ⦿ Prolong the life of you Medical Devices!
- ⦿ Optimise outputs from Medical Devices!
- ⦿ Accreditation!
- ⦿ Keeping with Australia/ New Zealand Standards

Electric Shock

- ⦿ Macro shock
- ⦿ Micro shock
- ⦿ Static shock

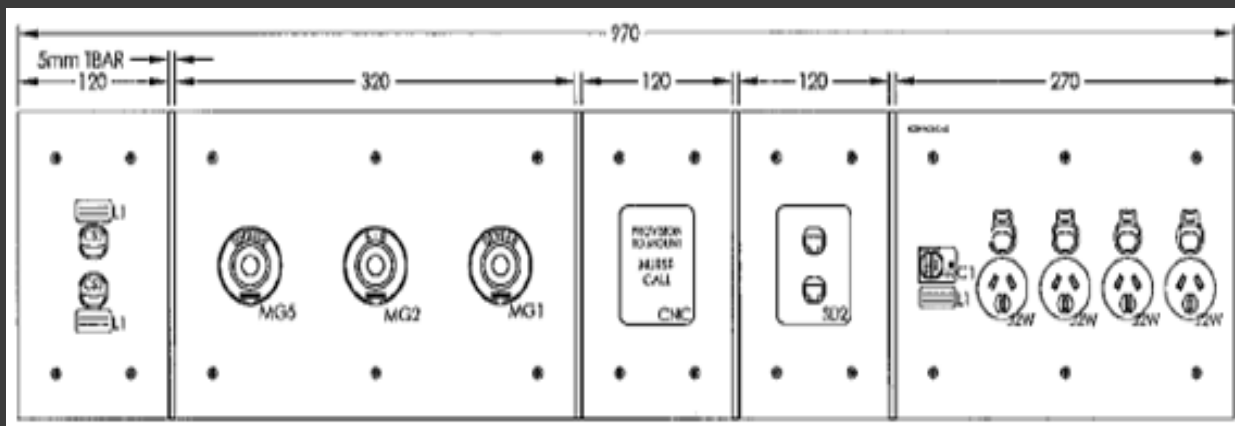
Other Hazards

- ⦿ Thermal
- ⦿ Radiant
- ⦿ EMI
- ⦿ Loss of Power

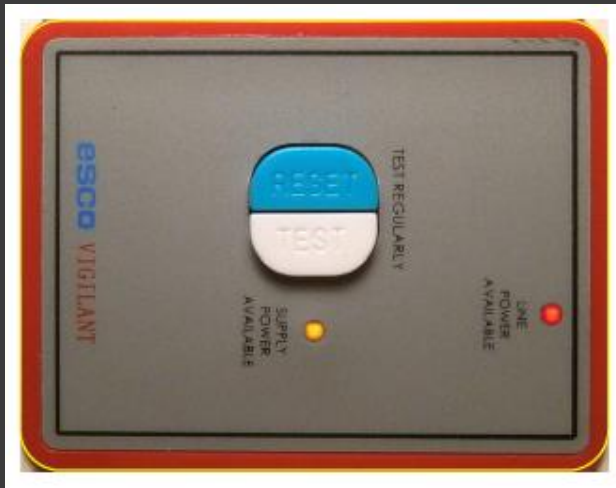
Medical Service Panels

- 1 panel solves all your problems
- 1 panel meets all the standards
- RCD Power Switches, Oxygen, Vital Signs, Otoscope, Ophthalmoscope, Exam Lights and other possible integrations
- Body Protected
- Complies with AS/NZS 3003

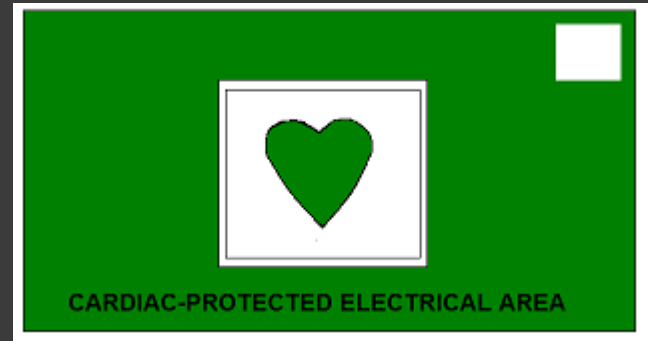
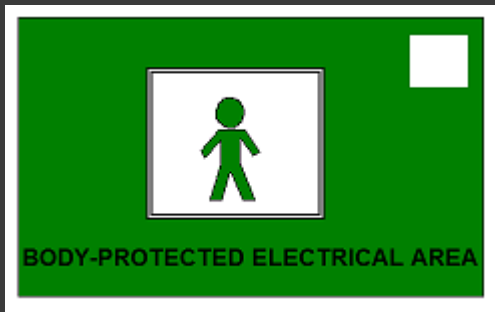
Medical Service Panels (www.modempak.co.nz)



RCD Switches – Body Protected & Gas Outlets (www.modempak.co.nz)



Area of Classification



Body Protected

Cardiac Protected

What to look out for?

- ⦿ Valid Service Stickers (WOF)
- ⦿ New equipment has been Acceptance Tested (WOF)
- ⦿ Extension Cords, Tap-on Plugs – No! No!
- ⦿ Clear Plugs & Moulded Clear Cords
- ⦿ Decommissioning damaged equipment

Repairs & Acceptance Testing

- ⦿ Dangers of NOT carrying out Acceptance Tests
- ⦿ Repairs Logging – Faults Tags
 - biomedical@outlook.co.nz (free tags)
- ⦿ Feasibility of repairs – quote before repair

TAG NO. XXXXX

**OUT OF
SERVICE**

DO NOT USE

REASON _____

SIGNED _____ DATE _____

TAG NO. XXXXX

LOCATION _____

PROBLEM _____

SIGNED _____ DATE _____

Testing Rates & Charges

- Feasibility of Annual Testing
- ECGs, Defibs, Diathermy, Vital Signs Monitors, Scales, Exam Lights, Suction Units, Ear Thermometers
- Some equipment do not need to be annually tested unless specified e.g. Ophthalmoscopes, Otoscopes, Stethoscopes

Innovative Medical Device Hazards

- USB ECGs, Spirometers, Diagnostic Devices. Electrical Leakage Hazards
- USB Devices should have dedicated Computers/Laptops
- Qualified Service Personnel
- Tested to Manufacturers Spec

Biomedical Service Provider

- ⦿ Ask Biomedical Technician for EAS License
- ⦿ Check WOF stickers have AS/NZS3551 stated on it
- ⦿ Ensure on the report you have some parameters stated and what Test Equipment was used to conduct test





Summary

- ⦿ In Service Training
- ⦿ Beware of Fluids and Wet Hands
- ⦿ Repair Fault Tags
- ⦿ Check for Faulty Cords & Plugs
- ⦿ New Equipment – Acceptance Tested before use
- ⦿ Check your Biomedical Service Providers Credentials

Modempak NZ | ESCO

- Kiwi Company
- Design, Manufacture, Distribute & Supply
- We deliver innovative medical equipment solutions
- Specialise in Planning, Refurbishments, New Builds & Equipment Audits

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