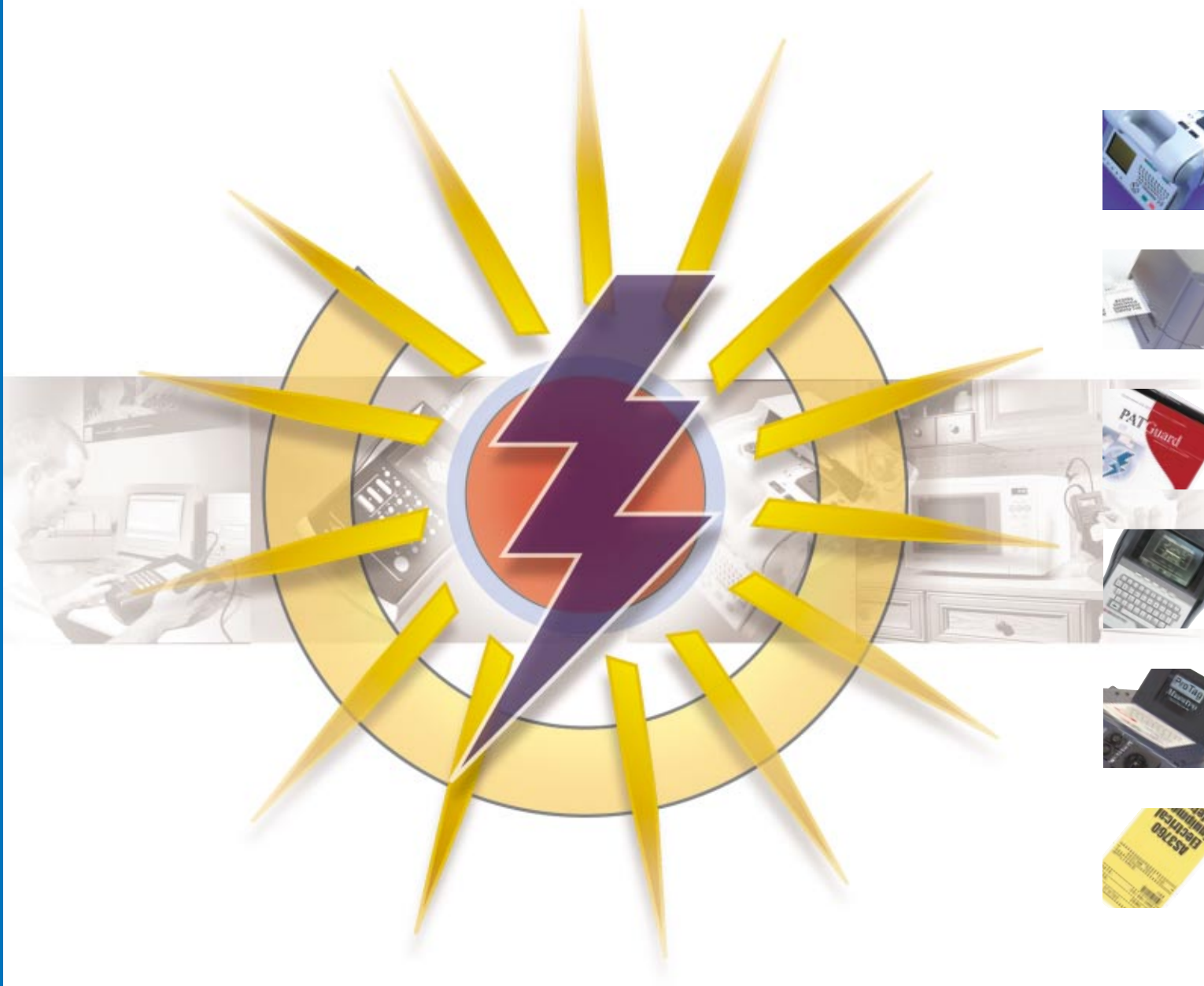




AS/NZS 3760:2003 Appliance Safety Testing Guide



"Dedicated to the Safety Testing Needs of Australia"

A Guidance and Product Selection Brochure for Companies and Organisations Wishing to Ensure Best Practice in Electrical Appliance Safety Testing and Compliance with **AS/NZS 3760:2003**



Seaward - Number 1 in Portable Appliance Testing

The importance of portable appliance testing cannot be underestimated, hence the introduction of the Australian/New Zealand Standard AS/NZS 3760:2003. Numerous accidents occur every year due to shocks from misused or faulty electrical

equipment. No other company understands the needs of testing in Australia and New Zealand, or the legislation, as well as Seaward Electronic. Seaward appreciates the needs of continually testing appliances to the necessary standards. This is why Seaward

have introduced the following products to satisfy the Australian and New Zealand electrical safety testing requirements. Each product is specially designed to test in accordance with 3760:2003.



AS/NZS 3760:2003 - In-service Safety Inspection and Testing of Electrical Equipment

The Australian/New Zealand standard AS/NZS 3760:2003 was introduced to clearly define the requirements of routine inspection and testing of electrical equipment.

Under the new 2003 Standard leakage testing is now mandatory if the equipment has an electronic switch. Users can

appreciate that applying 500V DC to an electronic switch device will only test up to the switch and not beyond the switch. Seaward have designed their Portable Appliance Testers with the requirements of this new standard by providing leakage tests for Class I items at 5mA Pass/Fail and Class II items at 1mA Pass/Fail.



The Legal Threat

As the public and employees alike become ever more assertive in terms of recourse to the law, great care has to be taken to avoid accidents in the workplace, and public places in general. The presence of OH&S regulations and WorkCover codes of practise protect

individuals against organisational negligence, coupled with ever stronger institutional protection means that the prosecution of the duty holder in negligence cases is ever more likely and ever more punitive.

Prevention & Protection

The issue of electrical safety is a significant legal issue. A well planned programme of preventive maintenance, with regular electrical safety checks at its core, is the optimum way to avoid needless and tragic accidents, and the legal and financial consequences that follow.

If carried out by qualified, experienced technicians, equipped with quality test instruments and backed up by a comprehensive record keeping system, portable appliance testing (PATs) is not only a critical aspect of compliance with electrical testing standards, it is a wise commercial investment.

A Product for Every Application

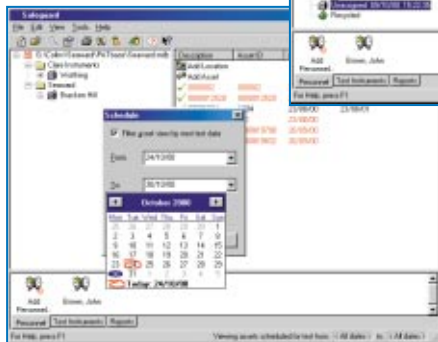
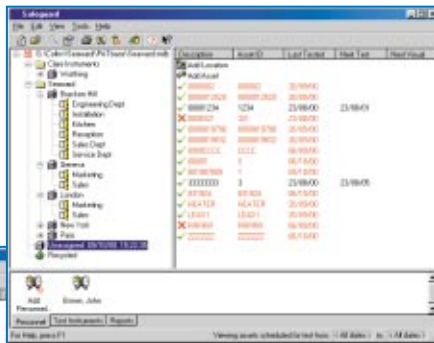
PATGuard Elite Safety Software

PATGuard. The Heart of your PATS System. The heart of any good preventive maintenance system is forward planning, and the keeping of detailed records. PATGuard Elite is a powerful management tool for planning and tracking electrical appliance safety testing, and a sound investment for organisations wanting to manage their safety testing in a professional yet flexible manner. With its

industry leading 'Drag and Drop' data manipulation, automatic email alerts, powerful data storage, and user-friendly report and certificate production capabilities, Health and Safety Officers and company directors alike can relax in the knowledge that they have invested in the best PATS software when it comes to managing electrical appliance testing.



Overview of all appliances



Test Re-scheduling

Supernova XE 3760

Designed from the ground up to comply to AS/NZ3760:2003 like no other tester on the Australian market. From 250V testing of MOV devices through to leakage tests for Class II appliances with an electronic switch, the Supernova XE 3760 software is fully customised to the requirements of AS/NZ3760:2003.

From its powerful results recording and download capabilities to its user-friendly interface characteristics, Supernova XE offers maximum scope for ensuring complete & accurate testing, whether construction tools or sensitive IT equipment form the basis of your PATS programme. In business, time is money, so the speed of testing with Supernova XE (when multiple earth paths exist, for example) will mean that it is one of the best accident prevention investments you could have.

Rapid boot-up is complete in less than two seconds, and a real-time clock eliminates the need for date entry.

Accurate earthbond and leakage measurement even when multiple earth paths exist.

Stores up to 5,000 memory locations including appliance number, site, location, user, test status and date.

Europa Plus

Europa Plus boasts all the features of its big brother, Supernova XE, but in a smaller footprint. Supplied complete with a durable carry-case, Europa Plus constitutes the ideal tool for PAT testing in applications where portability is most important. Qwerty keyboard, full menu-driven display, dual RS232 ports for connection to bar code scanner and ProTag printer and testing schedule upload capability (from PATGuard) make Europa Plus both an advanced and a safe choice.

An inbuilt help system provides the user with advice on test set-up and the ability to define Novice, and Advanced user modes means that 'you can get up and running' quickly, whether you are new to PAT testing or a seasoned professional.

Accurate earthbond and leakage measurement even with multiple earths.

Stores up to 5,000 memory locations.

Never before have so many features been packed into such a compact tester.

ProTag Maestro

The Maestro is the world's first appliance tester with in-built tag printer. It eliminates the need for multiple power and interface cables and connections by requiring only a single IEC mains power lead to power the unit. This provides users with the convenience of a single piece of equipment for appliance testing, test result logging and tag printing.

The Maestro is packaged in a heavy duty industrial enclosure with a fully sealed keypad, ideal for dusty environments. The Maestro is equally at home on a benchtop for in-house testing or on-site for testing and tagging service providers.

The Maestro includes an adjustable handle for easy transport and handling, rear storage compartment for a bar code scanner and a spare roll test tags, and is supplied with a protective metal top cover to prevent damage to the keyboard and LCD screen.



ProTag Test Tag Printer

No more hand writing test tags!

The ProTag thermal transfer printer prints durable and permanent synthetic test tags on-site directly from your Seaward Europa or Supernova XE appliance tester.

Just perform the test and print the tag. Your savings on test tags alone will pay for the printer in no time.

The tags are printed with the appliance number, appliance number bar code, test date, user name and test status. You can even customise the test tag with your own company logo loaded permanently in the printer's memory and printed on every test tag.

ProTag test tags are accountable and accurate. The system is fool proof and tamper evident as tags are generated directly from the tester's test results.

Test the appliance, print the tag, peel it off and stick it on

ProTag test tags are less than half the price of typical vinyl tags



The ProTag System Package

Australia's fastest and most efficient AS3760:2003 compliance system, allowing you to automatically test appliances, print test tags on-site and log results at rates of up to 30 items per hour.

The ProTag System Package is made up of:

- Seaward Supernova XE, Europa Plus or Maestro Appliance Tester
- PatGuard Elite management system software
- Bar Code Scanner for rapid asset identification
- ProTag Test Tag Printer (inbuilt on Maestro Tester)
- 500 Test Tags Starter Kit and Test Tag Logo Customisation
- 2 Hours ProTag System Training at your local Emona Office. On-Site training also available at an additional fee.

Simply scan the appliance's bar coded test tag, follow the appliance tester's on-screen test procedure prompts, print the test tag and attach it to the appliance. Testing, tagging and record keeping has never been so quick and so easy.

You'll wonder why you spent so much time manually testing, handwriting test tags and handwriting log books.

Call now for a ProTag System quotation for Australia's fastest and most efficient AS/NZ3760 solution.



The ProTag System Lease Benefits

Why not lease or rent the ProTag System?

Users typically find that the breakeven point is as few as 50 appliance tests.

With a throughput of up to 30 items per hour, you've typically paid for the ProTag System's monthly lease or rental in under 2 hours! Call for more details on the ProTag System lease.



Seaward...Your Complete PATS Solution

Choose from the industry leading features below and ensure that, with Seaward, your PATS programme is as effective as possible in preventing electrical accidents, and the consequences that follow.

Seaward PATS	Features and Characteristics		
	Supernova XE	Europa Plus	Maestro
Display	Alpha-numeric	Alpha-numeric	Alpha-numeric
Backlight	Yes	Yes	Yes
Operation	Menu	Menu	Menu
Keyboard	Qwerty	Qwerty	Qwerty
RS232 comms	Yes	Yes x 2	Yes
Parallel comms	Yes	No	Yes
PATGuard Software	Optional	Optional	Optional
Memory (results)	5000	5000	5000
Enclosure	Integral Lid	Integral Desk Stand	Integral Lid and Handle
Leads	Earth Bond	Earth Bond	Earth Bond, IEC
Enclosure/ Carry Case	Robust enclosure	2-section padded	Robust metal enclosure
Tag Printer	Optional	Optional	In-built
Dimensions(mm)	400x320x160	310x210x80	550x300x290
Weight(unpacked)	3.5kgs	3.5kgs	15kgs
Weight(packed)	5kgs	5kgs	16.5kgs

Seaward PATS	Tests Performed (Tester Outputs)		
	Supernova XE	Europa Plus	Maestro
Polarity	Yes	Yes	Yes
Earth Continuity	25A, 100mA, +200mAdc, -200mAdc	25A, 10A, 4A, 100mA, +200mAdc, -200mAdc	25A, 10A, 4A, 100mA, +200mAdc, -200mAdc
Insulation Resistance	250V, 500Vdc	250V, 500Vdc	250V, 500Vdc
MOV Devices	Yes	Yes	Yes
Class I Leakage	5mA	5mA	5mA
Class II Leakage	1mA	1mA	1mA
Switch "On" Test	Yes	Yes	Yes
kW Load Reading	No	Yes	Yes
Dual Voltage Test	No	110v, 240v	100v, 240v

Seaward PATS	Results Displayed		
	Supernova XE	Europa Plus	Maestro
Polarity	Yes	Yes	Yes
Earth Continuity	1ohm	1ohm	1ohm
Insulation Resistance	1Mohm	1Mohm	1Mohm
Class I Leakage	5mA	5mA	5mA
Class II Leakage	1mA	1mA	1mA

ProTag...Test Tag Printer

No more handwriting test tags! Print durable and permanent synthetic test tags within seconds direct from your Seaward Europa or Supernova XE.

ProTag Printer	Features
	ProTag Printer
Print Method	Thermal Transfer
Print Resolution	203dpi
Memory	1MB Flash RAM
Interfaces	RS232/Parallel
Ribbon	Permanent Wax Resin
Size	232mm x 288mm x 256mm
Weight	2.7kgs

Test Tag Specifications	
	ProTag Printer
Tags	Continuous Roll
Size	100mm x 50mm
Material	Durable Synthetic
Adhesive	Permanent
Tag Colours	Yellow, White, Green, Orange, Blue, Red
Tags Per Roll	500



Seaward ...Manual Testers

PAC3760

For ease of use, look no further than the PAC3760!

Simple 3 push button operation and Pass/Fail indication, make the PAC3760 the ideal choice for both competent person applications as well as professional contractors.

- Pass/Fail indication with "Tick" or "Cross"
- Unique 3 button operation: Class I, Class II and Leakage
- Automatically conducts a sequence of tests - no complicated on-screen menus to navigate
- Powers up appliances with an electronic switch or MOV for leakage current tests with Pass/Fail limits 5mA for Class I and 1mA for Class II
- Automatically senses an IEC or extension lead and conducts a polarity test
- Automatically detects that the appliance under test is switched "On"
- Supplied complete with Earth Lead, IEC Lead Adaptor and protective carry case



PrimeTest 200

The all-in-one tester! The PrimeTest 200 is a combined portable appliance and RCD tester. It also provides basic DMM measurements making it ideal for service and repair applications.

The unit operates in both battery and mains powered modes. When appliance testing, users can conduct earth continuity, insulation and polarity tests under battery power, then plug the unit into mains power to conduct leakage current tests.

- Simple rotary switch test selection
- LCD with back light displays Pass/Fail, analog bar graph and measurement readings
- Leakage current tests power up appliances with an electronic switch or MOV with Pass/Fail limits 5mA for Class I and 1mA for Class II
- Class I leakage test automatically includes earth continuity test in the sequence
- Continuity buzzer helps for manual probing of a good earth when testing Class I appliances
- Socket polarity test ensures installation safety
- Supplied complete with batteries, lead set, IEC lead and protective carry case



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