

STM/L

Bench-mounted comprehensive tester

Semi-automatic and manual manufacturing/luminaire tester that tests earth/ground bond, hipot, DC insulation resistance, leakage, load and power.

SafeTest Manufacturing/Luminaire (STM/L) can be used as a simple manual electrical safety tester or with varying degrees of automatic test sequencing.

The electrical safety tester performs earth bond testing, insulation resistance testing, flash testing/hipot testing, leakage testing, short-to-line and run/load tests. It is easy to operate with a full QWERTY keypad and/or barcode scanner, and includes full-on screen user instructions.

The STM/L meets the needs of manufacturers who require a range of fundamental safety tests to be carried out on a variety of electrical and electronic products to CE and international standards.

All tests are individually selectable and STM/L's internal memory has the capacity to store the results of 6,000 tests.

An optional safety label printer enables the automatic production of test tags, labels and test reports. Clever use of the optional barcode scanner (for product identification and tester configuration) means this product can be integrated easily into a typical ISO quality control system.

Key Features

- Storage of up to 6,000 test results
- Manual and semi-automatic test sequencing
- Link to a printer for pass/fail identification
- Link to scanner for faster data entry
- Beacon port & guard switch for EN50191 compliance
- Download results to PATGuard 3 software

Electrical Test Functions

- Earth/ground bond test
- AC/flash/hipot test
- DC insulation resistance
- Leakage test
- Load test
- Power/run test

STM/L Users

Most appropriate for small scale electrical manufacturers and service/repair centres:

- Production and Manufacturing Engineers/Managers/Directors
- Quality Managers/Directors
- Operations Managers/Directors



www.seaward.co.uk/STML

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Technical Specifications

Flash/Hipot Test (Class I)

Test Voltage Class I	1.5kV AC
Display Range	0.1 – 10.00mA
Resolution	0.01mA
Accuracy	+/- 5% +/- 2 digits
Pass Levels	Selectable up to 10mA

Flash/Hipot Test (Class II)

Test Voltage Class II	3.0kV AC
Range	0.1 – 10.00mA
Resolution	0.01mA
Accuracy	+/- 5% +/- 2 digits
Pass Levels	Selectable up to 10 mA

Earth/Ground Bond Test

Test Voltage	6VAC (open circuit)
Test Currents	25A, 10A, 4A, 100mA AC into short circuit
Range	0.04 - 20Ω
Resolution	1mΩ
Accuracy	+/- 5% +/- 2 digits
Pass Levels	User selectable

DC Insulation Test

Test Voltages	250V, 500VDC
Range	100k - 50M
Accuracy	+/- 5% +/- 2 digits

General Specifications

Dimensions (w x h x d)	450 x 410 x 155mm / 17.7 x 16.1 x 6.1"
Weight	9kg / 19.8lb
Operating Voltage Range	103–126V, 207–253V, 45–65Hz
EN 50191	Compliant when used with appropriate accessories

Standard Accessories (Supplied with STM/L)

■ HT probe	■ Earth bond lead
■ Guard with plug	■ Instruction manual
■ Calibration certificate	

Optional Accessories

Barcode scanner (194A922)
Serial printer lead (283A955)
Serial-PC lead (9-9 way) (194A919)
Serial-PC lead (9-25 way) (194A920)
Desk Test n Tag printer (supplied with 100x50mm labels) (312A916)
Desk Test n Tag printer (supplied with 35x45mm labels) (312A973)
Guard switch (DCS317)
Beacon (H-5027)
Beacon connector lead (H-5028)

Earth Leakage (Load Leakage)

Voltage	Mains supply
Range	0.1 – 20mA
Resolution	0.01mA
Accuracy	+/- 10% +/- 2 digits (1.00 – 20mA)
Pass Levels	Selectable up to 10mA

Substitute Leakage (Short to Case Test)

Voltage	40VAC nominal at 230V/110V supply
Range	0.1 – 20mA
Resolution	0.01mA
Accuracy	+/- 10% +/- 2 digits (1.00 – 20 mA)
Pass Levels	Selectable up to 15mA

Power/Run/Load Test

Measured Load	0 – 4.2kVA
Resolution	0.01kVA
Accuracy	+/- 10% of reading, +/- 2 digits

Polarity

Test Performed	Live & neutral continuity & polarity
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External Connections

■ Serial port	■ Parallel port
■ Guard switch	■ Beacon

PATGuard 3 Elite software

Download your 30 day free trial at www.seaward.co.uk/PG3trial

Services

1 year warranty (subject to product registration with Seaward.
Visit www.seaward.co.uk/register-product)

Go to www.calibrationhouse.com or

www.seaward-groupusa.com/service-center for more information
about our services and calibration

Part Number

313A910