

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

Technical Specification

Flash/Hipot Test (Class I)

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

Flash/Hipot Test (Class II)

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

Earth / Ground Bond Test

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

DC Insulation Test

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

Earth Leakage (Load Leakage)

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

Substitute Leakage (Short to case test)

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

Power / Run / Load Test

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

Polarity

Test performed	Live & Neutral continuity & polarity
----------------	--------------------------------------

External Connections

Serial Port
Parallel Port
Guard Switch
Beacon

General

Dimensions	450W x 410H x 155D mm
Weight	9kg
Operating Voltage Range	103V – 126V, 207V – 253V, 45Hz – 65Hz
EN 50191	Compliant when used with appropriate accessories

Standard Accessories

(Supplied with Safetest Manufacturing/Luminaire)

HT Probe
Earth Bond Lead
Guard with Plug
Instruction Manual

Optional Accessories

194A922	Barcode Scanner
283A955	Serial Printer Lead
194A919	Serial-PC Lead (9-9 way)
194A920	Serial-PC Lead (9-25 way)
312A950	Desk Test n Tag Printer
312A954	Desk Test n Tag Printer Labels
312A952	Desk Test n Tag Printer Ribbon
DCS317	Guard Switch
H-5027	Beacon
H-5028	Beacon connector lead

PATGuard 3 software

Download the free trial at
www.seaward.co.uk/pg3trial

Services

1 year warranty subject to product registration with Seaward Service & Calibration by Calibrationhouse

Part Number

313A910



www.clare.co.uk/stml

Tel: +44 (0) 191 587 8744
 Email: sales@seaward.co.uk