

# SAFETEST MANUFACTURING

## Bench Mounted Comprehensive Tester

### ■ Multi Industry Use

SafeTest Manufacturing can be used as a simple manual tester or with varying degrees of automatic test sequencing.

It performs earth bond, insulation resistance, flash/hipot, leakage, 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 SafeTest Manufacturing 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 Safe Testing Manufacturing'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	SafeTest Manufacturing
Earth / Ground Bond Test	■
AC / Flash / Hipot Test	■
DC Insulation Resistance	■
Leakage Test	■
Load Test	■
Power / Run Test	■
Storage of test results	Up to 6000
Manual and semi-automatic test sequencing	■
Link to a printer and scanner for fast and traceable testing	■

### 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





**MCS Test Equipment Ltd**  
Unit 5-6 Station Yard,  
Llanrwst, Conwy,  
North Wales,  
LL26 0EH

Tel: 08453 62 63 65  
Fax: 08453 62 36 16  
Email: sales@mcs-testequipment.co.uk  
Web: www.mcs-testequipment.co.uk

#### DC Insulation Test

Test Voltages	250V, 500V DC
Range	100kΩ - 50MΩ
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

### ADDITIONAL INFORMATION

#### Mechanical

Dimensions	450W x 410H x 155D mm
Weight	9kg

#### Electrical

Operating Voltage Range	103V – 126V, 207V – 253V, 45Hz – 65Hz
Operating Temperature EN 50191	0 – 40°C Compliant when used with appropriate accessories

#### Supplied with

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

#### Software

352A910	PATGuard Elite 2 – Premier
352A920	PATGuard Pro 2 – Professional
352A930	PATGuard Lite 2 - Entry level

#### Service

Onsite or return to base  
Service  
Calibration

#### Order Number

STM