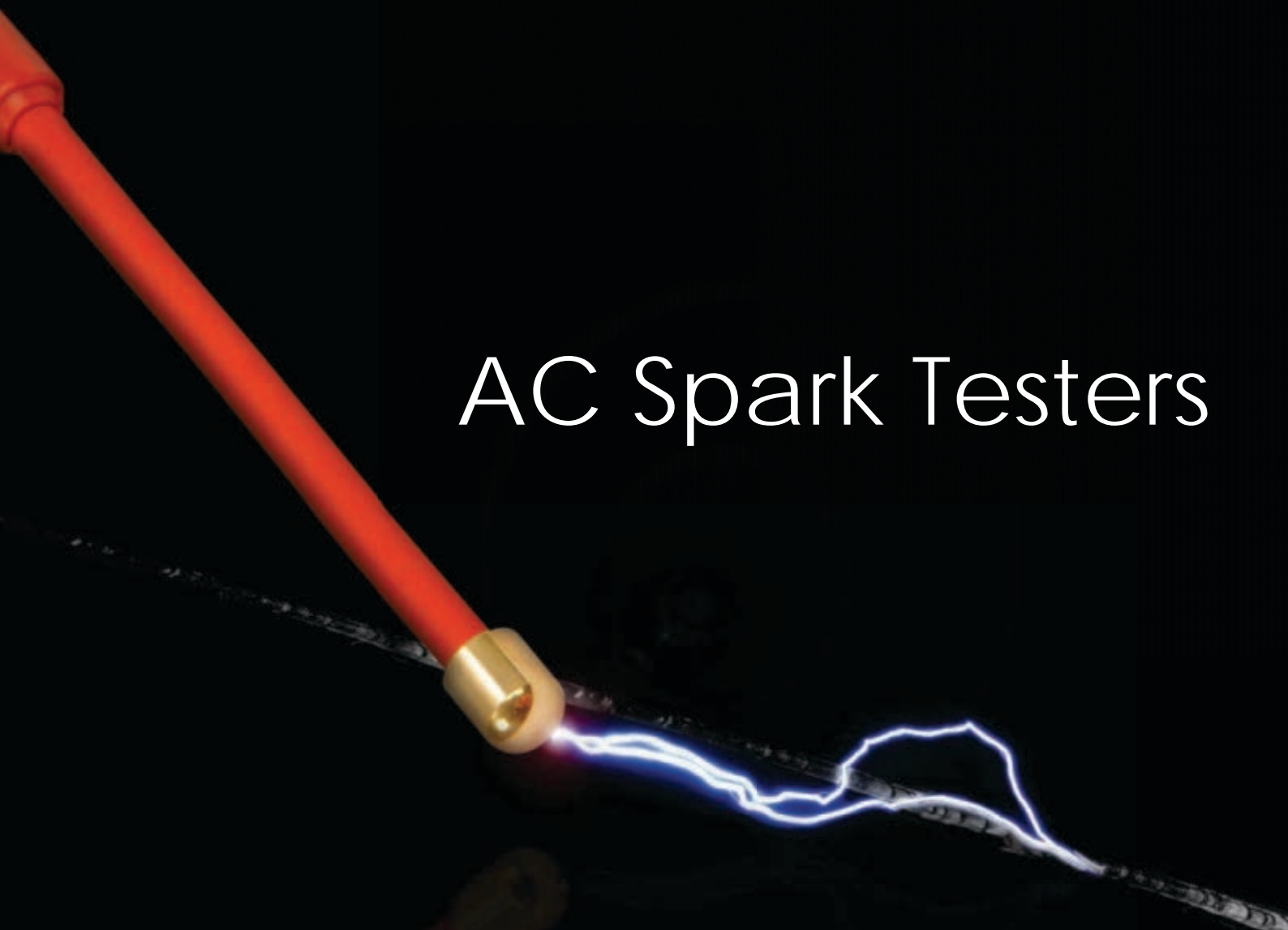


**BUCKLEYS**

MANUFACTURERS OF SPECIALIST TEST EQUIPMENT

# AC Spark Testers

A red AC spark tester probe with a brass tip is shown testing a metal surface. A bright blue spark is visible at the point of contact. The background is dark, and the probe is reflected on the surface below.

test for defects in coatings & linings  
over conductive materials



# AC Spark Testers

Buckleys manufacture two types of spark tester which provide a quick and convenient method of checking the integrity and locating defects in a variety of coatings.

Spark Testers generate AC voltages of typically between 10 and 55kV. They are used for testing thicker coatings and linings of between 3mm and 30mm.

Spark Testers have no audible or visual alarms to indicate a fault and rely on the operator to observe a spark jumping through a flaw in the coating material. Due to their AC high-frequency operation they can find faults in 100% coated articles.

# PST-100

The PST-100 Spark Tester is a lightweight, ergonomic, hand-held spark test pistol which provides a quick and cost-effective method of inspecting thicker coatings and linings. Coating thicknesses of between 3mm and 30mm can be tested.

The PST100 generates a pulsed-ring output voltage which is adjustable between 10kV and 55kV.

Two variants are available; depending on the input voltage being used. The T50 has a 230V input whilst the T52 uses a 110V input. Both models can be purchased on their own or as a comprehensive kit (T51 or T53).



## What's in the kit?

### Standard kit - T50 (230V) & T52 (110V)

- PST-100 spark tester unit
- 150mm flexible probe
- Comprehensive operating instructions
- Robust executive-style carrying case

### Comprehensive kit - T51 (230V) & T53 (110V)

*Items included additional to Standard kit*

- Pointed probe & Drum brush electrodes
- 2 x 220mm insulated extension rods
- Gauze mesh electrode with adaptor
- 150mm phosphor bronze brush electrode & adaptor
- Spare HV coil
- Spark gap setter

# ST-AC 100

The ST-AC 100 Spark Tester is a compact yet robust AC spark tester which provides a convenient method of inspecting thicker coatings and linings. Coating thicknesses of between 3mm and 30mm can be tested.

The ST-AC 100 generates a pulsed-ring output voltage which is adjustable between 10kV and 55kV.

The input voltage can be switched between 110V and 230V AC via a simple switch on the reverse of the unit's sturdy aluminium casing.

The ST-AC 100 comes with a 2m test probe lead, making it ideal for spark testing in confined or awkward spaces whilst the unit's folding carry handle make it even more convenient and portable.

The ST-AC 100 is available on its own (T7) or as a comprehensive kit with accessories and electrodes (T7A).



## What's in the kit?

### Standard kit - T7

- ST-AC 100 spark tester unit with test probe handle
- 150mm flexible probe
- 2m mains lead
- Comprehensive instruction manual

### Comprehensive kit - T7A

*Items included additional to Standard kit*

- Robust transit case
- Spark gap setter
- Pointed probe
- Drum brush
- 2 x 220mm insulated extension rods
- Gauze mesh electrode with adaptor
- 150mm phosphor bronze brush electrode & adaptor

# Specifications

Model	Input voltage	Output voltage range	Output frequency
PST-100 (T50/T52)	230V	10kV - 55kV	100kHz ring pulsed at 50Hz @ 50Hz mains
PST-100 (T51/T53)	110V	10kV - 55kV	100kHz ring pulsed at 50Hz @ 50Hz mains
ST-AC 100 (T7/T7A)	110V/230V	10kV - 55kV	100kHz ring pulsed at 50Hz @ 50Hz mains

## Accessories



**A7/A7A/A8**  
Insulated  
Extension Rods  
6005-0089/-0273/-0090



**A4**  
Spark Tester  
Adaptor  
6005-0080



**E0004**  
Gauze Mesh  
Electrode 128mm  
(See Data Sheet E3)



**AD11**  
Metric - Imperial  
Adaptor (black)  
6005-0009



**ADM1**  
Imperial - Metric  
Adaptor (red)  
6005-0011



**E912**  
Drum Brush  
Electrode  
6005-0237



**E104**  
Phosphor Bronze  
Electrode  
(See Data Sheet E1)



**T8B**  
Nose Cone  
6000-0012



**A18**  
ST-AC 100  
Carrying Case  
6005-0062



**A2**  
Spark Gap  
Setter  
6005-0064

## Also available

Buckleys' PD range of pinhole/holiday detectors are capable of testing a wide range of non-conductive coatings and linings quickly for pinholes, porosity and other faults.

Standard detector units are available individually or, alternatively, a variety of comprehensive kits are available; tailored with accessories and electrodes to best suit the intended application; from pipeline test kits to roof-leak detection kits and much more.

Contact us for more information on Buckleys' product range, call our sales team on +44 (0)1303 278888, email [sales@buckleys.co.uk](mailto:sales@buckleys.co.uk) or visit our website: [www.buckleysinternational.com](http://www.buckleysinternational.com)



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