smoke & heat detector test equipment

Standards throughout the world require the testing of fire detection systems in a safe and controlled manner.

The Solo range of tools offer a professional solution to Standards' requirements, testing all makes and types of smoke, heat and CO (Fire) detectors mounted up to 9m.

Solo tools are unique in that they are completely interchangeable with each other. Each of the tools fit on all of the poles within the range, offering a high quality solution that repays the investment in a matter of weeks, when compared to traditional methods of testing.

Solo 461

Solo 461 Cordless CAT™ Heat Detector Tester
• Safe, with no cables to trip over
• Battery operated tool
• Heat is directed horizontally at the sensor
• Rapid activation of detectors
• No flame
• Supplied with 2 Battery Batons™ and a fast charger

Each Solo 461 comes complete with 2 Battery Batons™ that fit inside the Solo poles and a charger which may be used in either a mains socket or in-car.

Using CAT – Cross Air Technology - air is heated and blown across the cup, which means the heat source is directed at the detector sensor, not the plastic components or casing. For battery conservation, the tool does not begin to operate until the detector breaks the infra-red beam in the cup.

Solo 423/424

This cost-effective device is available in both 110/120 and 220/240 volt versions. It is ideal for initiating heat detectors into alarm, whether rate-of-rise or fixed. The Solo 423/424 comes complete with a 5m lead as standard with the option of an extra 5m extension.

The 110v version (Solo 423) is designed in accordance with the requirements of the Construction (Health, Safety & Welfare) Regulations 1996 and the Electricity at Work Regulations 1989, making it eminently suitable for use on construction sites.

For the fire engineer, the new BS5839 means a change in the testing of heat detectors. Below are the notable changes.

"Every heat detector should be functionally tested by means of a suitable heat source….The heat source should not have the potential to ignite a fire; live flame should not be used..."
Section 6. 45.4 c)

Solo solutions are:

smoke detector testing

Solo 330

Codes and standards require functional tests to introduce (simulated) smoke through the detector vents and into the sensing chamber. Magnetic testing is not acceptable. The use of a smoke dispenser for the release of smoke test aerosol for efficient activation of detectors is highly recommended.

- Robust – to withstand the rigours of everyday use
- Dispenser – conserves aerosol and accurate dispersion of aerosol particles
- Spring-loaded mechanism – for effective, economic aerosol delivery
- Touch sensitive – ideal for suspended ceilings
- Clear cup – allows view of detector LED
- Strength and durability of modern plastics technology – for long life & minimal weight

Solo Detector Tester

Selection of the correct smoke test aerosol is important and needs to consider the following features:

- Oil-free formulation
- Faster testing / clearing times
- Non-flammable
- UL Listed
- No lasting residue
- Detector component compatibility
- Manufacturer endorsed

Solo CO

The only way to test a CO (Fire) detector is to introduce CO safely to the sensor from the outside, demonstrating free flow and no blockages in the route from the atmosphere to the sensor.

- available in a convenient aerosol canister format
- at a level which poses no threat to the user in normal use
- designed for use within the Solo 330 Dispenser, therefore interchangeable with Solo Detector Tester.

Solo Detector Duster

Solo Detector Duster is ideal for the cleaning of detector from the dust and dirt that can collect on detector surfaces. Debris is one of the causes of detector drift in sensitivity and can lead to detector false alarms, or in worse cases, a failure to alarm in a case of fire.

To clean the detector, simply remove the detector head at any height up to 9m with the Solo 200 Removal Tool and blow the debris using Solo Detector Duster.

Trutest – Smoke Detector Sensitivity Tester

The world's most technologically advanced field service test instrument for sensitivity testing of smoke detectors.

Smoke detector sensitivity can and does drift. To help guarantee performance of smoke detectors and reduce the number of false alarms from over-sensitive detectors, sensitivity should be monitored.

Regular sensitivity testing is obligatory under certain codes and standards. To ensure the sensitivity test is correctly performed, the technician must introduce smoke to the sensor through the sensing chamber. Sensitivity tests carried out through other means – such as laser, panel testing and magnet testing – are a test of the electronics of the detector only.

Trutest is a fully portable device, enabling fire alarm technicians to measure the real sensitivity of smoke detectors quickly and easily in one test.

Solo 200

A universal detector removal / replacement tool suitable for use on the majority of current detectors.

Colour coded grips twist into place to create different size combinations. One tool is all that you need.

Solo 200 has a universal joint ensuring that the tool remains parallel with the ceiling while in use, even on detectors that cannot be accessed directly from underneath.

Kits

The range of Solo testing tools are available in economical and convenient kit formats. The contents of each are determined according to your testing needs.

Solo Telescopic and Extension Poles

The core element of the Solo range is the telescopic pole, which is extremely lightweight and quick and easy to extend.

Poles are subjected to rigorous conductivity testing to ensure the integrity of the insulating materials. Equipment in contact with live electrical components make it vital for the insulating materials to be of the highest standard.

The Solo 100 /108/101 will stand up to the rigours of everyday field-testing and isolate the user from danger. The durable telescopic and extension poles combine to reach heights of up to 9m, with all tools conveniently interchangeable within the range.

Ordering Information

Solo 100	Telescopic Pole	From 1.27m to 4.48m in 4 sections allowing access up to approx 6m
Solo 108	Extension Pole	2.5m in 2 sections
Solo 101	Extension Pole	1.13m
Solo 200	Removal Tool	From 65mm diameter to 110mm diameter
Solo 330	Smoke Dispenser	Up to 100mm diameter
Solo Detector Tester	Smoke Test Aersosol	
Solo CO	For testing of CO fire detectors	
Solo Detector Duster	For cleaning of fire detectors	
Solo 423*	Heat Tester	Mains power 110V AC
Solo 424*	Heat Tester	Mains power 220V AC
Solo 461*	Heat Tester Kit	1 x Solo 460 Cordless Heat Tester
	2 x Solo 720 Battery Batons™	
	1 x Solo 725 Universal Battery Charger	
*Not for use in hazardous areas (those containing explosive vapours or dust)		
Solo 810 Kit	A starter pack for testing smoke detectors fitted at normal ceiling height	
Solo 811 Kit	A universal set for testing and removing smoke detectors up to 6m high	
Solo 812 Kit	A universal set for testing and removing smoke detectors up to 8.2m high	
Solo 814 Kit	A universal set for testing and removing smoke and heat detectors up to 6m high. With Mains Heat Tester	
Solo 822 Kit	A universal set for testing and removing smoke and heat detectors up to 6m high. With Cordless Heat Tester	
Solo 823 Kit	A universal set for testing and removing smoke and heat detectors up to 9m high. With Cordless Heat Tester	

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