

Solo Detector Testing



Maintenance test equipment
from Channel Safety Systems



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Maintenance test equipment

A complete range of test and maintenance detector equipment for smoke, heat and CO detectors.

Testing equipment must be proven to be;

- Safe for the engineer
- Cost-effective
- Versatile
- Portable
- Approved by all detector manufacturers and in compliance with international codes and standards

The Solo range meets and exceeds all of these requirements and more. By using this equipment regularly you can be assured that your fire alarm system will perform in an emergency.



The image above shows from left to right F/CH/SOLO/610, F/CH/SOLOA3-001 & F/CH/SOLO/330

Smoke Testing

Test requirements for smoke detectors fall broadly into two categories:

Functional (or Operational) Testing

Functional checking is accomplished by introducing a smoke, or simulated smoke, stimulus from the protected area through the vents of a detector to the sensor(s). It is required by all national standards around the world and testing by electronic means that do not involve this test is not sufficient to comply.

Calibration (or Sensitivity) Testing

Sensitivity testing confirms whether the detector's performance is within the acceptable parameters. Although some countries' codes accept field sensitivity tests of smoke detectors by electronic means it can only be properly done by introducing a quantified source of smoke or surrogate smoke to the detector from the protected atmosphere.

Features for 330/332 Dispensing unit

- Lightweight and simple to use
- Universal design suits widest range of detectors (up to 100mm/4" in diameter)
- Spring-loaded solution for suspended ceilings
- Transparent test cup for clear view of detector LED
- Swing frame for use at / from angles
- Outstanding quality backed by lifetime warranty
- Detector manufacturer approved
- Solo 332 suitable for detectors up to 177mm/7" in diameter



Features for A3 Aerosol

- Designed for use with the Solo 330/332 dispensers
- Detector manufacturer approved
- Non-flammable
- Fastest activation
- Fastest clearing time
- Non toxic
- No harmful residue

PRODUCT CODE	DESCRIPTION
F/CH/SOLO/330	Smoke dispenser
F/CH/SOLO/332	Smoke dispenser with wide cup
F/CH/SOLOA3-001	Solo test smoke aerosol 250ml

Heat Testing

Functional checking of heat detectors, with a genuine heat source, is now required by major national standards around the world. Testing with heat sources not designed for the purpose can be both dangerous and damaging. The Solo range of heat detector testing equipment, designed specifically for the purpose, provides a genuine professional's solution.

Features for 423/424 Wired heat detector test unit

- Suit fixed temperature, rate-of-rise and combination detectors up to 194°F / 90°C
- Quickest activation times
- Lightweight and simple to use
- Universal design suits widest range of detectors
- Designed for use at height, at angles and low level
- Supplied with 5m / 16ft cable (additional 16ft / 5m cable available)
- Solo 423 for 110/120 volt
- Solo 424 for 220/240 volt

Features for 460 Cordless heat detector test unit

- Battery powered - no hanging wires / tangled cables
- Lightweight and simple to use
- Suits fixed temperature, rate-of-rise and combination detectors up to 194°F / 90°C
- Unique IR activation & Cross Air Technology for optimum energy use and results
- Universal design suits widest range of detectors
- Adjustment lever for angled surfaces
- Transparent test cup for clear view of detector LED

Features for 461 Cordless heat detector test kit

- 460 with 2 Slim NiMH battery batons and charger for rapid charging

Features for 425 Extension cable

- For use with 423/424 Mains Powered Heat Detector Tester, to extend the reach of the unit
- Can be joined together to extend the range further in 5m sections

Features for 760 Battery baton

- Battery for use with the Solo 460 Cordless Heat detector tester
- Slim NiMH battery
- Non-hazardous battery Features for 725 Baton battery charger
- For use with the Solo 760 Battery Batons
- Rapid charging times
- For vehicle and site charging



F/CH/SOLO/460



F/CH/SOLO/424 &
F/CH/SOLO/423



The image above shows from left to right F/CH/SOLO/425 & F/CH/SOLO/725



The image above shows F/CH/SOLO/760

PRODUCT CODE	DESCRIPTION
F/CH/SOLO/423	Mains heat tester (110V)
F/CH/SOLO/424	No climb mains heat tester (220V)
F/CH/SOLO/461	Cordless heat tester kit
F/CH/SOLO/460	Cordless heat tester (head unit only)
F/CH/SOLO/425	5m Additional Extension Cable Assembly
F/CH/SOLO/760	Battery baton
F/CH/SOLO/725	Battery charger

CO Testing

Many multi-sensor fire detectors detect carbon monoxide (CO) as well as smoke and / or heat. Under international codes and standards the CO cell needs to be functionally tested with a CO stimulus from the protected area through the detector vents to the sensor.

Solo CO – used in conjunction with Solo 330 / 332 dispensers - provides a safe way of achieving this with CO concentration levels high enough to activate an alarm, but low enough not to pose danger to user health.

Features

- Detector manufacturer endorsed
- Genuine and non-flammable CO stimulus
- Controlled delivery
- Designed for use with Solo 330 / 332 dispensers

Please Note: Certain CO life safety detectors (as opposed to fire detectors with CO sensors within them) require a low concentration of CO sustained over a long period of time. Solo CO and Solo 330 / 332 are unlikely in isolation to prove suitable for testing these detectors.



PRODUCT CODE	DESCRIPTION
1. F/CH/SOL O/CO	Solo CO fire detector tester aerosol

Removal & Cleaning

Detectors need removal and replacement for various reasons. The vast majority are fitted on bayonet mountings and the task can be done using specialist tools fitted to appropriate access poles. Using such specialist devices saves the time, cost, disruption and risk to safety that ladders, scaffolding or access gear represents.

Faced with a vast array of different models shapes and sizes the professional needs a universal tool. Compatible with an astonishingly wide range of detectors, the colour-coded heads of the Solo 200 rotate to provide a combination of sizes and settings for just about every detector.

Features for 200

- Facilitates quick & easy detector removal, even in awkward locations
- Fully adjustable to mate with most detectors
- Removal head will remain flush with the ceiling from all angles
- Also ideal for removal of detectors installed on sloping ceilings
- Colour-coded grips simply twist into place to create the required size combination

Detector cleaning is a specialist activity that involves more than just a wipe and a blow. An inherent part of it is, however is usually the clearing of dust or other solid contaminants. The Solo A7 has been developed specifically for this purpose - with a particularly high velocity burst and non-flammable formulation.

Features for A7

- Non-flammable
- High velocity output
- Simple to use
- Non abrasive



F/CH/SOLO/200



F/CH/SOLOA7-001

PRODUCT CODE	DESCRIPTION
F/CH/SOLO/200	Removal tool
F/CH/SOLOA7-001	Solo air duster aerosol 250m
F/CH/SOLO/SPARE1002	Spare pair of transparent grips for Solo 200

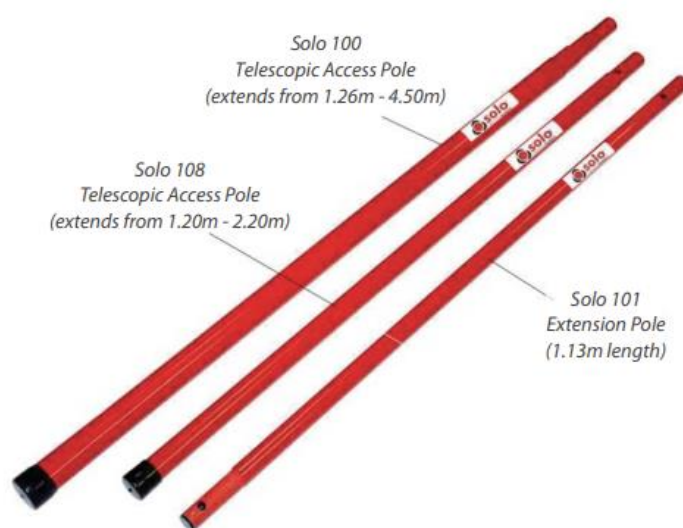
Telescopic Poles

Solo Telescopic Poles are required for detectors out of normal reach. Their use saves the time, cost, disruption and risk to safety that ladders, scaffolding or access gear represents.

The value of these access poles over 'other poles' is not just the quality of their design and manufacture. Pull-wound glass fibre construction provides no conductivity with an optimum strength to weight ratio and high tolerance manufacture ensures minimum possible whip or bend at height relative to weight and cost. This, coupled with the simple locking mechanism of the telescopic sections means that these access poles combine ease of use with design and manufacturing excellence.

Features

- Optimum strength to weight ratio
- Minimum possible whip or bend at height
- Certified no conductivity
- Available in one, two or four telescopic sections
- Simple locking mechanism and easy to use
- Outstanding quality backed by lifetime warranty



PRODUCT CODE	DESCRIPTION
F/CH/SOLO/100	Telescopic pole – 6m
F/CH/SOLO/101	Extension pole – 1.13m
F/CH/SOLO/108	Telescopic pole (4m reach)

Accessories

The Solo 610 is a purpose designed carry-bag / storage bag, which holds all the tools an Engineer needs for testing - not just practical but also giving a professional image when arriving on site.

Features

- Designed to fit Solo product range
- Separate pole bag included

Dimensions

- 500mm wide
- 450mm high
- 180mm deep



PRODUCT CODE	DESCRIPTION
F/CH/SOLO/610	Carrybag (including pole bag)
S/CH/1028-001	Aerosol retaining cup
F/CH/SPARE1005	Silicone membrane for test cup

Testing Kits

The Solo fire alarm testing kit range are the professionals choice for fire alarm testing equipment throughout the UK and the rest of the world. These kits have been specifically designed for testing fire alarm system devices and are made from high quality hard wearing materials.

A comprehensive range of kits, all configured by height and application, to provide the most cost-effective way of purchasing complete functional testing solutions.

Also available with sensitivity testing options for an all-encompassing testing package.

The contents of each are determined according to your individual testing needs - see below for our Kit Selector and Product Range Selector to help you choose the product right for you.



PRODUCT CODE	DESCRIPTION
F/CH/SOLO/808	Smoke detector test starter pack
F/CH/SOLO/809	Smoke detector test starter pack
F/CH/SOLO/810	Starter kit for testing smoke detectors
F/CH/SOLO/811	Smoke kit 6m for testing and removing
F/CH/SOLO/812	Smoke kit 8.2m for testing and removing
F/CH/SOLO/814	Smoke/mains heat kit 6m for testing
F/CH/SOLO/822	Smoke/cordless heat kit 6m for testing
F/CH/SOLO/823	Smoke/cordless heat kit 9m for testing

Kit Selector

PRODUCT CODE	SMOKE TESTING*	HEAT TESTING	CO TESTING**	ACCESS HEIGHT (approx. max.)	330 AEROSOL DISPENSER	461 CORDLESS HEAT TESTER	424 MAINS HEAT TESTER	100 ACCESS POLE	101 EXTENSION POLE	108 ACCESS POLE	200 REMOVAL TOOL	610 CARRYING BAG	760 BATTERY BATON	725 BATTERY CHARGER
F/CH/SOLO/808	●		●	4m	●					●				
F/CH/SOLO/809	●		●	6m	●			●						
F/CH/SOLO/810	●		●	2.5m	●				●					
F/CH/SOLO/811	●		●	6m	●			●			●	●		
F/CH/SOLO/812	●		●	8.2m	●			●	● (x2)		●	●		
F/CH/SOLO/814	●	●	●	6m	●		●	●			●	●		
F/CH/SOLO/822	●	●	●	6m	●	●		●			●	●	●	●
F/CH/SOLO/823	●	●	●	9.3m	●	●		●	●		●	●	●	●

Product Range Selector

PRODUCT CODE	PRODUCT	DESCRIPTION
F/CH/SOLOA3-001	Smoke Test Aerosol	250ml Canister for use with Solo 330/332 Dispenser
F/CH/SOLO/CO	CO Test Aerosol	250ml Canister for use with Solo 330/332 Dispenser
F/CH/SOLOA7-001	Detector Duster	250ml Canister for handheld use only - for access, remove detectors at height with Solo 200
F/CH/SOLO/100	Telescopic Access Pole	From 1.26m to 4.50m in 4 sections for access up to approx 6.00m
F/CH/SOLO/101	Extension Pole	1.13m length
F/CH/SOLO/108	Telescopic Access Pole	From 1.27m to 2.50m in 2 sections for access up to approx 4.20m
F/CH/SOLO/200	Removal Tool	For detectors of 65mm diameter up to 110mm diameter
F/CH/SOLO/330	Smoke Dispenser	For testing detectors of up to 100mm in diameter
F/CH/SOLO/423	Heat Detector Tester	Mains powered 110V AC
F/CH/SOLO/424	Heat Detector Tester	Mains powered 220V AC
F/CH/SOLO/460	Heat Detector Tester	Cordless Heat Tester (inc. 2 x Solo 760 Battery Batons & 1 x Solo 725 Battery Charger)
F/CH/SOLO/610	Carrying Bag	For carrying Solo Head Units, Battery Batons, Charger & Aerosol Cans
F/CH/SOLO/725	Battery Fast Charger	For use with Solo 461
F/CH/SOLO/760	Battery Baton	Rechargeable NiMH Battery for use with Solo 461