HEAT DETECTOR TESTERS

fast
efficient
convenient
innovative
safe
patented
9m reach
Heat Detector Testing: Why and How?

National standards require that heat detectors are tested regularly by application of a heat source.

The SOLO™ range includes two professional, alternative solutions to meet that requirement:

1. The cordless SOLO 461, incorporating the innovative CAT™ (Cross Air Technology), activates 95% of all spot / point type heat detectors (fixed temperature, rate of rise and combination) within seconds and many times faster than previous designs.

The rechargeable Battery Batons™, mounted inside the access pole, enable safe and efficient testing without any trailing cables / cords or the need for a safety transformer.

Or, for those seeking a lower cost solution,

2. The SOLO 423/424* provides a powerful heat source contained within the transparent cup, which enables a view of the illuminated LED upon successful activation.

While the SOLO 423/424* does need a power cord / mains cable, it is nonetheless a professional heat detector testing tool, designed for safe use in the appropriate environment without causing damage to the heat detector.

* SOLO 423/424 is also available with other cable / cord and plug options for international use

SOLO RANGE INTEGRATION

Both products integrate with the universal SOLO™ range, which represents today's most advanced system for testing, removing and replacing both smoke and heat detectors at heights up to 9 metres / 30 feet.

SOLO 423/424*
MAINS HEAT TESTER

The SOLO 423/424* is a professional and robust tool for testing heat detectors fitted at heights up to 9m / 30ft. Unlike the SOLO 461, it does require a power cord / mains lead but, conversely, does not require any special energy saving features.

- Available in both 110 / 120 and 220 / 240 volt versions.
- Designed for use on fixed temperature, rate of rise and combination detectors.
- Suitable for any type of make of spot / point type heat detector fitted at heights of up to 9m / 30ft.
- Large clear cup fits over detector enabling a clear view of the detector LED.
- Tests detectors up to 90°C / 194°F operating temperature.
- Thermal cut-out for added protection.

* SOLO 423/424 is also available with other cable and plug options for international use
What is CAT™?

The revolutionary and patented CAT™ (Cross Air Technology) system applies the stimulus directly to the sensor in the most efficient way possible - horizontally.

In the case of heat detector testing, CAT™:
- Reduces test times dramatically.
- Sets detectors into alarm more rapidly than any other safe technique.
- Uses the minimum power necessary, thereby extending battery life.
- Suits rate of rise, fixed temperature and combination detectors up to 90°C / 194°F.
- Minimises the possibility of heat damage to the plastic of the detector.

The SOLO 461 incorporates a 'reference platform', which ensures that the 'beam' of heated air is lined up correctly with the sensor, whatever size and shape of detector.

Under the control of a microprocessor, blown air is heated by the element just before exiting the duct. The narrow opening focuses the heat into a 'beam'.

Because the hot 'beam' of air is targeted directly at the sensor, substantial amounts of energy and time are saved. This design allows many more tests per Battery Baton™ than ever before.

SOLO 461 CORDLESS (CAT™) HEAT TESTER

The SOLO 461 provides a solution for testing heat detectors that is second to none. Its patented design is convenience itself, whilst offering the fastest functional test possible in the safest and most controlled way.

- Heat is directed straight at the detector sensor.
- Sets 95% of all spot / point heat detector types into alarm within seconds.
- Tests detectors up to 9m / 30ft with SOLO universal access poles.
- No cables / cords - power from Battery Baton™ is delivered to unit via the frame.
- Uses same Battery Batons™ and charger as previous model - no need to buy new ones.
- Infra-red beam is broken by detector to activate heat generation.
- Microprocessor control maintains constant heat and airflow with variations in battery voltage.
- Goes into standby after 120 secs of use for protection.
- Switches off completely after 5 minutes in standby for further protection.
- Supplied with 2 Battery Batons™ and fast charger (operates from 110 / 120, 220 / 240V AC supply or 12V DC car battery).
Other interchangeable equipment available in the range includes:
- Functional smoke detector tester.
- A single universal detector removal / extraction tool.
- Telescopic access pole to 6m / 20ft.
- Further extension poles to 9m / 30ft.

**Specifications**

**SOLO 461 (CAT™ Cordless)**

- **Suitable detector types:** Spot / Point type, Rate of Rise, Fixed Temperature and Combination up to 90°C / 194°F
- **Maximum detector size:** Any – so long as the sensing element can be targeted by the heat source
- **Number of test:** Typically 50 tests of 30 secs duration per Battery Baton™
- **Maximum height:** Up to 3m / 10ft using SOLO 461 alone. Up to 9m / 30ft using SOLO extension poles
- **Approvals:** CE Mark
- **Safety Features:** Battery over-current cut-out
- **Operating features:** Colour coded LED user feedback
- **Environment:** Operating temperature 5ºC to 45ºC / 40ºF to 115ºF
- **Relevant Weights and Dimensions**
  - **Weight:**
    - Solo 460: 0.60kg / 21oz
    - Solo 720: 0.50kg / 18oz
    - Solo 724: 1.20kg / 2lb 10oz
  - **Dimensions:**
    - Inside diameter 100mm / 4in approx
    - Diameter 29mm / 1.15in, Length 490mm / 19.3in
- **Power:**
  - 650W approx
- **Frequency:** 50 / 60 Hz
- **Cable length:** 500mm / 20in nominal
- **Type of connector:** IEC 309 / BS 4343 / CEE 17 Industrial
- **Weight:** 0.89kg / 1lb 15oz
- **Dimensions:**
  - Inside diameter 115mm / 4.5in approx, working depth 80mm / 3in approx
- **Safety:** Thermal cut out, electrically fused, double insulated

* SOLO 423/4 is also available with other cable and plug options for international use

**SOLO 423/4” (Corded / Mains Powered)**

- **Suitable detector types:** Spot / Point type, Rate of Rise, Fixed Temperature and Combination up to 90°C / 194°F
- **Maximum height:** Up to 9m / 30ft using SOLO extension poles
- **Operating voltages:** 110 / 120V AC or 220 / 240V AC
- **Power:** 650W approx
- **Frequency:** 50 / 60 Hz
- **Cable length:** 500mm / 20in nominal
- **Type of connector:** IEC 309 / BS 4343 / CEE 17 Industrial
- **Weight:** 0.89kg / 1lb 15oz
- **Dimensions:**
  - Inside diameter 115mm / 4.5in approx, working depth 80mm / 3in approx
- **Safety:** Thermal cut out, electrically fused, double insulated

Please note the following important information regarding these products:

Not for use in hazardous areas (those containing explosive vapours or dust).
Care must be taken when handling these products immediately after use, as parts may be hot to the touch.
Tests with these products may prove that the detector is operational and capable of responding to heat; they do not indicate the calibration level of the fixed temperature element or the grade status.
Care needs to be taken when testing combination fixed temperature / rate of rise devices.

**Ordering Information**

<table>
<thead>
<tr>
<th>Part No</th>
<th>Description</th>
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<tbody>
<tr>
<td>Solo 423</td>
<td>110 / 120V AC</td>
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<tr>
<td>Solo 424</td>
<td>220 / 240V AC</td>
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<tr>
<td>Solo 460</td>
<td>Cordless “Head Unit” - note: requires Solo 720 and Solo 724</td>
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<tr>
<td>Solo 461</td>
<td>Cordless Heat Detector Test kit including:</td>
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<tr>
<td></td>
<td>1x Solo 460 CAT™ Cordless Heat Detector Tester</td>
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<tr>
<td></td>
<td>2x Solo 720 Battery Baton™</td>
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<tr>
<td></td>
<td>1x Solo 724 Universal Battery Charger</td>
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<tr>
<td>Solo 720</td>
<td>Battery Baton™ for Solo 460</td>
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<tr>
<td>Solo 724</td>
<td>Universal Fast Charger for Battery Batons™</td>
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<tr>
<td>Solo 822</td>
<td>Solo kit incorporating Solo 100 Telescopic Pole, Solo 200</td>
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<tr>
<td></td>
<td>Removal Tool, Solo 300 Smoke Dispenser, Solo 461 and</td>
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<tr>
<td></td>
<td>Solo 610 Carrying Bag</td>
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**PLEASE SPECIFY COUNTRY OF USE WHEN ORDERING**

NB: Details of products described in the publication are subject to change without notice.