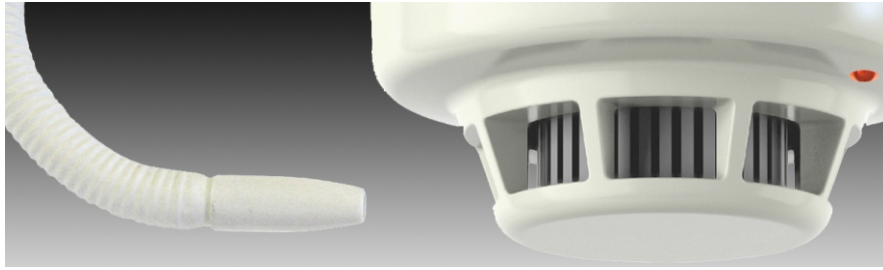
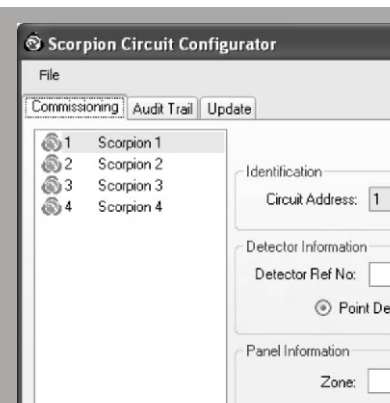
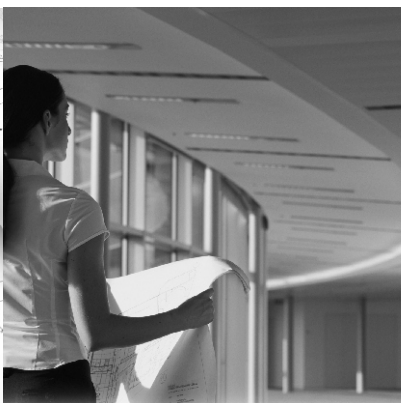


REMOTE TESTING



For POINT SMOKE DETECTORS



scorpion[®]
REMOTE DETECTOR TEST TECHNOLOGY

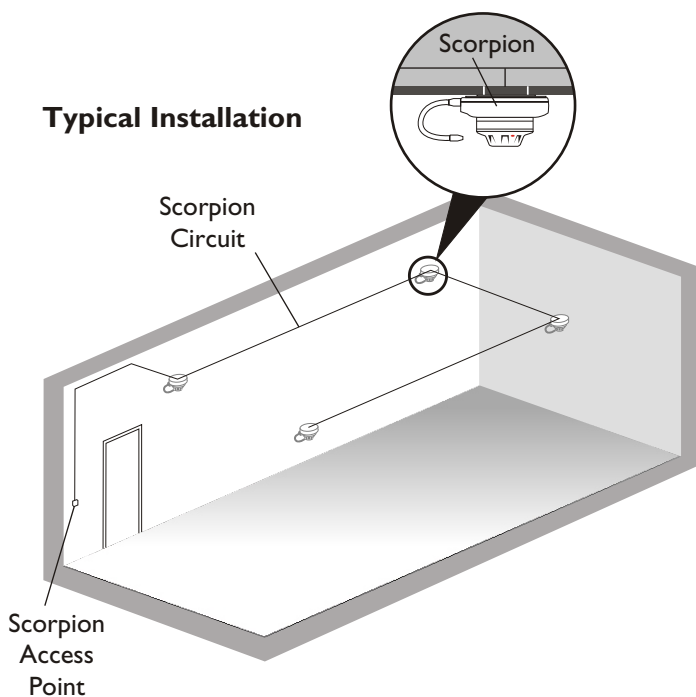
www.scorpion-tester.com

Remote Testing

Scorpion Point is a unique, remote smoke detector test system that assists compliance with International Codes and Standards for testing fire detection systems, while delivering radical time, cost and disruption savings, considerable enhancements to safety and a documented and traceable audit trail. Scorpion Point also integrates with Scorpion ASD and revolutionises the testing of aspirating smoke detection systems.

Installation

The Scorpion Point head is a smoke generator which is permanently installed behind or adjacent to a standard point detector but which uses its own cabling and remains discrete from the fire detection system. Scorpion is suitable for both retrofit installations and new installations. Scorpions can be installed on a Scorpion circuit (with Scorpion Point and Scorpion ASD on the same circuit if required) with a maximum circuit length of 500 metres. There is no limit to the number of circuits that can be installed on site. Each circuit 'terminates' at a conveniently located Access Point (which is the point at which the service engineer interfaces with the Scorpion system).



Use

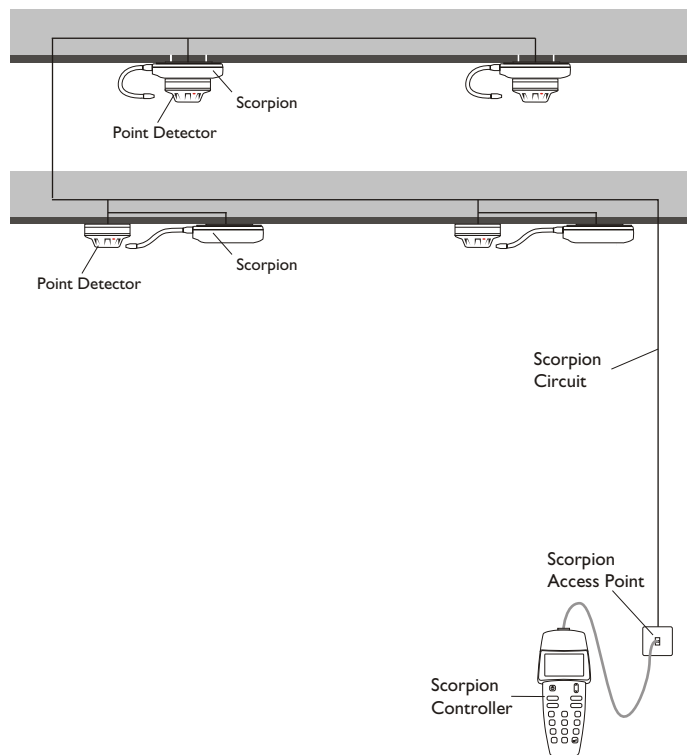
The system is powered and activated only through the portable Scorpion Controller, carried from site to site by a service engineer and which connects to the system through the conveniently located Access Point - a single location from which multiple Scorpions can be accessed and activated.

At commissioning, data is uploaded to individual Scorpions from the Controller through the Access Point and, during regular ongoing testing, the Controller interrogates the Scorpion circuit, displaying the number of Scorpion heads connected to the Access Point, the commissioning data for each of those Scorpions and previous test data. Tests can then be conducted, in an automated cycle¹ if desired from a convenient single location and test results downloaded back to the Scorpion Controller.

Automatic monitoring of alarm activation is achieved by an isolated connection to the remote LED output of the point smoke detector. This automated alarm activation indication not only automatically stops the test and starts an automatic fan assisted smoke clearing cycle to enable rapid detector reset but also enables the sequential test feature¹ to move from one detector to the next.

¹Requires alarm panels that allow automatic reset of detectors to enable sequential testing

Installation Examples



Accessibility

Detectors that cannot be accessed (or perhaps even seen) are often those most relied upon to function. In many cases they have, until now either been overlooked and untested or the costs of their maintenance has greatly affected lifetime cost and even system design. By eliminating the need for equipment (cherry pickers, scissor lifts etc.), Scorpion saves both disruption and financial cost and can rapidly pay for itself.

Audit Trail

All tests conducted by Scorpion are recorded. With appropriate circuit design and commissioning input, data recorded includes; zone and location information, test personnel identification, time and date of tests (plus in the case of aspirating systems, pipe transport time). This data, from commissioning and the two most recent tests, is stored on site in the Scorpion head units themselves. It can be interrogated at any time using a Scorpion Controller, itself capable of storing up to 10,000 tests.

The data can also be downloaded from the Controller for transmission to interested parties or for use in back office systems, assisting administration and providing the 3rd party audit trail sought by so many on an increasing basis.

Benefits

Improved Access

- Detectors in secure areas checked without physical access
- Detectors at height or in otherwise hazardous locations safely and quickly tested
- Detectors in tricky locations such as voids, behind cable trays or in lift shafts rendered accessible for testing
- Disruption to 24/7 processes or public areas eliminated

Time and Cost Savings

- Huge time savings from accessibility gains (even where physical access equipment was not required)
- Sequential testing of multiple units from a single location and automated fan assisted stimulus clearing deliver radical time savings
- Remote confirmation of alarm activation removes the need for 'man and mate'
- Out of hours working minimised or eliminated
- Physical access equipment costs eradicated

Approved Stimulus

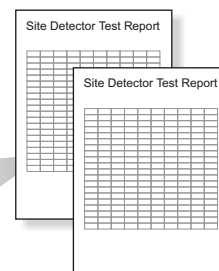
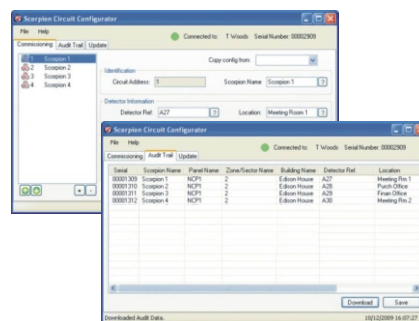
- Benign consistent particulate dispensed under software control avoids material contamination through over or incorrect use

Compliance

- True functional testing using stimulus with wide smoke particle size range
- Resolution of access issues avoids conflict with safety (access) rules

Traceability

- Test dates and times recorded alongside personnel
- Audit trail stored at device level (on site) and easily interrogated by future users
- Test data downloaded for use in back office systems and user reports



Product Selector



Scorpion
SCORP 100



Scorpion Controller
SCORP 200



Scorpion Access Point
SCORP 300



Scorpion Power Pack
SCORP 50



Scorpion Control Cable
SCORP 60



Solo Universal Fast Battery Charger
SOLO 725



Scorpion Mounting Bracket
SCORP 10



Scorpion Cover Plate
SCORP 20

Technical Specifications

Suitable detector types

- Optical (photoelectric) and ionization smoke detectors; conventional or addressable

Features

- Smoke generation profiles tailored for point type smoke and ASD systems
- Historical test data (date, time and time to alarm) stored for each detector or ASD pipe run for last, previous and commissioning tests
- Test audit trail and data integrity through storage of data on each Scorpion
- Auto confirmation of detector alarm through isolated point detector remote LED or ASD alarm output connection
- 'Autotest' feature for sequential automated testing of each Scorpion
- Activity LED on each Scorpion
- On-screen activity indicator and test results on Controller

Testing capacity

- In excess of 240 tests per Scorpion

Safety features

- Scorpions energized only at time of test
- Isolation between Scorpion circuit and detection system
- Internal over-current protection on Scorpion circuit
- Battery over-current cut-out
- Controller auto power off after 30 minutes inactivity

Power source and charge data

- Scorpion NiMH rechargeable battery pack nominal 7.2v 2.2Ah
- Charging time 75 - 90 minutes (when completely discharged)

Environment

	Controller / battery pack	Scorpion
Operating temperature range	+5°C to +30°C (41°F to 86°F)	-10°C to +60°C (14°F to 140°F)
Storage temperature range	-10°C to +50°C (14°F to 122°F)	-20°C to +70°C (-4°F to 158°F)

Servicing intervals

- Scorpion sealed for life (no serviceable or field replaceable parts)

Weights & Dimensions

- Scorpion: 180g 145mm x 113mm x 27mm (excluding nozzle)
- Access Point: 55g 85mm x 85mm x 30mm
- Controller: 365g 222mm x 93mm x 35mm
- Power Pack: 523g 139mm x 81mm x 48mm

Cabling

- Scorpion circuit wiring: 1.5mm² shielded twisted pair FP200 (or equivalent)
- Maximum cable length per Scorpion access point 500 metres

PC Requirements

- Microsoft Windows XP (SP3), Windows Vista or Windows 7
- CD-Rom drive or internet connection to install software
- USB port to connect to Scorpion controller for commissioning data upload and test data retrieval.

International Patents Apply

Scorpion® is a registered trademark.



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This information must be read in conjunction with the Scorpion Installation Manual & User Guide which provides further information on Scorpion applications, compatibility and suitability.



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