

Technical Specifications

Suitable detector types

- Optical (photoelectric) and ionization smoke detectors; conventional, addressable or analogue addressable
- Aspirating smoke detection (ASD) systems

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 opto-isolated point detector remote LED or ASD alarm output connection
- 'Autotest' feature for sequential automated testing of each Scorpion (up to 32 Scorpions / circuit)
- Activity LED on each Scorpion
- On-screen activity indicator and test results on Controller

Testing capacity

- In excess of 800 tests per Scorpion

Safety features

- Scorpions energized only at time of test
- Galvanic 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

ASD Particle lifetime

- Suitable for 120 seconds / 100 metres (excluding clearing cycle)

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)	+0°C to +45°C (32°F to 113°F)
Operating Humidity range	0 to 85% RH non-condensing	0 to 85% RH non-condensing
Storage temperature range	-10°C to +50°C (50°F to 122°F)	-10°C to +50°C (50°F to 122°F)
Storage humidity range	0 to 90% RH non-condensing	0 to 90% RH non-condensing

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 (Belden 8719 or equivalent)
- Maximum total cable length per Scorpion circuit: 800 metres

Information for Specifiers

Scorpion: A permanently installed remote functional test system for point type smoke or ASD systems that:

- uses genuine smoke-like particulate stimulus
- provides a test audit trail by recording time to alarm / relative transport time for last, previous and commissioning tests
- is battery powered
- incorporates a smoke clearing cycle
- includes remote monitoring of detector alarm function

