Scorpion®

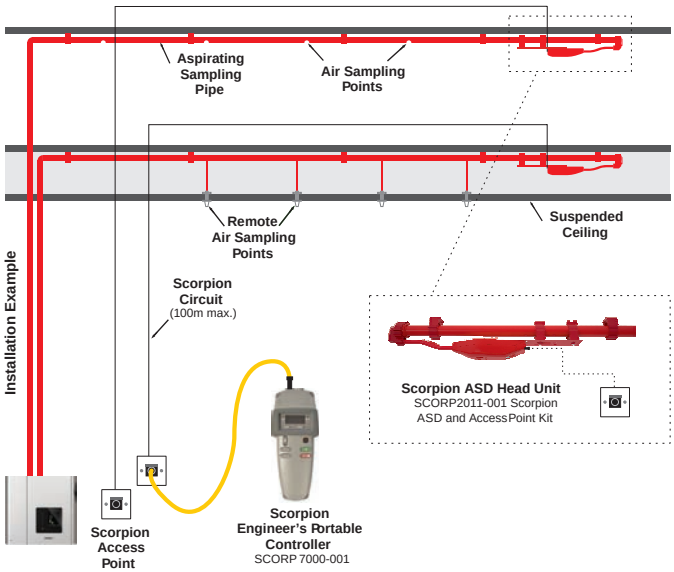
Introduction

Scorpion® is a unique, functional smoke detector test system for Aspirating Smoke Detection (ASD) systems that solves a number of long standing challenges, assists compliance with international codes and standards and delivers radical time, cost and disruption savings.

Scorpion is a micro smoke generator permanently installed adjacent to a sampling hole on an ASD pipe, typically at the furthest sampling hole. The smoke generator is connected to an access point mounted at a convenient, easy to access location at ground level.

Functional testing of the smoke detector is then easily and safely achieved from the Access Point (with an Engineer's Controller) whenever required.

Scorpion makes testing detectors in lift shafts, warehouses, factories, or secure areas as simple as testing a detector within easy reach.



Xtralis recommends the use of Scorpion for functional testing of its range of aspirating smoke detection systems.

Benefits

- Compliance
  - Adhere to codes and standards
  - Ensure a method for testing each detection system
- Minimal Disruption
  - No need for specialist access equipment or personnel
  - Eliminates need to enter secured, sensitive, inaccessible or unsafe areas
- Reduced On-going Costs
  - Time and cost saved in coordinating access
  - Removes need for specialist staff (lift engineer, machinery operators)
  - Allows normal building operation during testing Automatic Purging Unit/3500L AFE70-2

Features

- Smoke generation tailored for functional testing of ASD systems
- Adjustable smoke time to suit characteristics of system under test
- Smoke Particle Lifetime suitable for 120 seconds/100m pipe runs
- Testing capacity in excess of 240 tests of 15 seconds each per Scorpion Head Unit

Safety Features

- Scorpion Head Unit energised only at time of test
- Isolation between Scorpion circuit and detection system
- Internal over-current protection on Scorpion circuit
- Battery over-current cutout

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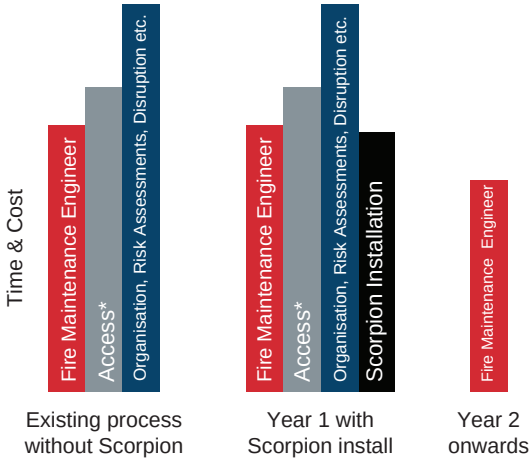
Example of typical time and cost savings using Scorpion



*Access costs may include equipment or a service engineer (in the case of a lift installation).

WHY DO YOU NEED IT?

Aspirating Smoke Detectors (ASD) are required to be tested once a year. Accessing the systems to carry out testing can be costly and time consuming. However, by installing Scorpion, time and cost concerns are eliminated – with the system able to be tested withease as part of the standard site visit.

Traditional ASD testing is generally performed by trying to introduce a test smoke, (often of inappropriate suitability), into individual sampling points.

Scorpion offers an approved, benign and effectively non-contaminating test particulate delivered in a controlled and repeatable manner.

Technical Specifications

	Scorpion Head Unit	Scorpion Access Point	Scorpion Engineer's Controller
Transport / Storage Temperature	-10°C to 70°C (14°F to 158°F)	-10°C to 50°C (14°F to 122°F)	-10°C to 50°C (14°F to 122°F)
Storage Humidity	0-90% RH (non-condensing)	0-90% RH (non-condensing)	0-90% RH (non-condensing)
Operating Temperature	0°C to 60°C (32°F to 140°F)	5°C to 45°C (41°F to 113°F)	5°C to 45°C (41°F to 113°F)
Operating Humidity	0-95% RH(non-condensing)	0-85% RH (non-condensing)	0-85% RH (non-condensing)
Ingress Protection	IP20	IP20	IP20
Weights and Dimensions (LxWxH)	<200g 155mm x 54mm x 34mm (excluding nozzle)	<200g 87mm x 87mm x 50mm (including connector)	<500g 220mm x 95mm x 40mm (excluding cables)

Note: The Scorpion system is designed for specific applications within these parameters. For additional information regarding location and installation procedures, please refer to the Scorpion User Manual.

Ordering Information

Description	Part Number
ASD Head Unit Kit (includes Scorpion ASD Test Head & low level Access Point)	PIP-040
Engineer's Portable Controller	PIP-041
Battery Pack to power engineers controller	PIP-042
Battery charger kit including car charger	PIP-043

Power source and charge data

- Scorpion Battery Pack (Scorp50) or Solo Battery Baton (Solo760) - NiMH rechargeable nominal 7.2v 2.2Ah
- Charging time 75 - 90 minutes (when completely discharged) when using Solo battery charger
- Solo Battery Charger (Solo 726) - Input: 100-240V AC / 50/60 Hz / 0.44A, 13.8VDC 1.8A. Output: 8.4V DC 2A Fast 8.4VDC 100mA Trickle

Note: A Scorpion Battery Pack (Scorp50) or Solo Battery Baton (Solo726) is required when carrying out testing.

Cabling

- 3-core solid conductor, 0.5mm² CSA (up to 75m) or 1.0mm² CSA for 100m cable lengths
- 1 cable between each Head Unit and Access Point
- Fire-rated cable not necessary

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