

Scorpion®

SCORP 8000, SCORP 2001, SCORP 60, RE7T-B1, RE7T-C1



Remote test system for aspirating smoke detectors (ASD)

- Unique, functional, remote smoke detector test system for aspirating smoke detectors (ASD)
- Huge time savings thanks to improved access
- Transport time function for monitoring the ongoing performance of ASD systems
- Transport time evaluation function saves regularly testing every aspirating hole
- Suitable for areas with restricted access such as warehouses
- Suitable for danger zones such as elevator shafts
- Supports compliance with national and international standards for testing fire detection installations

The remote test system for aspirating smoke detectors (ASD) solves a number of longstanding problems, supports compliance with international regulations and standards, helps make considerable time and cost savings, and reduces interruption times.

Traditionally, aspirating smoke detectors are tested after commissioning by supplying a test aerosol to the individual aspirating holes. This method is not only often highly impractical, but can also contaminate the ASD system. Scorpion provides an approved, harmless, and non-contaminating test aerosol which is supplied in a controlled and repeatable manner.

Scorpion head units are permanently mounted to the end of a pipe run, which means that there is a controlled and consistent piece of testing equipment for every test for the entire time that the system is running. The transport time can be measured by recording when Scorpion is activated and when the alarm is triggered. Comparing this data against retained commissioning data, previous tests, and acceptable tolerances enables judgments to be made regarding the integrity of the aspirating system.

Improving access

Connecting a remote Scorpion device to a readily accessible controller avoids issues such as:

- Additional (and unsightly) pipe runs
- Access problems
- Faults and interruptions

Time and cost savings

- Huge time savings thanks to improved access (even if no physical access equipment was required)
- Repeatable transport time integrity tests
- Significant time savings as a result of sequentially testing multiple devices from a single location
- Work outside of operating times is minimized or no longer necessary
- No physical access equipment costs

Permissible activating material

- Harmless, consistent aerosol which is supplied in a controlled and repeatable manner
- Probability of overdose and contamination as a result of excessive application of test aerosol is reduced
- Recognized by global leaders in the production of ASD systems

ASD particle lifetime

Suitable for 120 s/100 m pipe runs

Features

- Smoke generation tailored to functional testing of ASD systems and point smoke detectors
- Adjustable smoke supply time to suit characteristics of system being tested

Test capacity

More than 240 tests per Scorpion device

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- Public spaces that are accessible around the clock, such as airports
- Areas with limited access, such as prisons, military facilities or banks
- Areas in continuous operations, such as production facilities

Type Overview

Туре	Item number	Designation
SCORP 8000	S54333-C91-A1	Scorpion controller
SCORP 2001	S54333-S90-A1	Scorpion ASD head unit
SCORP 60	S54333-N89-A1	Scorpion battery cable
RE7T-B1	S54370-N7-A1	Solo770 battery
RE7T-C1	S54370-N8-A1	Solo727 charger

Product documentation

You will find additional information on the positioning and installation of the remote test system for aspirating smoke detectors (ASD) in the operating instructions at: http://www.scorpion-tester.com/site/support/user_guides/

Notes

Safety

- Scorpion devices are only powered during testing
- Electrical isolation between Scorpion cabling and fire detection installation
- Internal overcurrent protection on the Scorpion cabling
- Battery overcurrent shut-off

Installation

- Suitable for retrofitting in existing ASD systems or installation in new systems
- Up to 8 Scorpion head units connected to a single controller
- A Scorpion head unit at the end of every pipe run
- Scorpion head units are located up to 100 m⁽¹⁾ away from the Scorpion controller
- Battery operations
- (1) Depends on the cable used

Commissioning

Cabling

- Scorpion cabling:
 - Cable FP200 1.5 mm², J-Y(ST) Y 0.5 mm or equivalent
 - 4 cable cores per Scorpion head unit
- Maximum cable length per Scorpion controller: 100 m
- Maximum number of Scorpion devices per controller: 8

Maintenance intervals

- No maintenance needed
- The Scorpion device is sealed for the entire service life (device cannot be maintained and parts cannot be replaced on site)
- The fuse is located in the Scorpion controller

Disposal



The device is considered an electronic device for disposal in accordance with the European Guidelines and may not be disposed of as domestic garbage.

- Dispose of the device through channels provided for this purpose.
- Comply with all local and currently applicable laws and regulations.
- Dispose of empty batteries in designated collection points.

Technical data

Environmental conditions and protection categories			
	Solo770 battery	SCORP 2001 Scorpion ASD head unit	SCORP 8000 Scorpion controller
Transport/storage temperature	-25+70 °C	-20+70 °C	-10+50 °C
Operating temperature	+5+35 °C	0+60 °C	+5+45 °C
Storage humidity	≤90 % rel. (non- condensing)	≤90 % rel. (non- condensing)	≤90 % rel. (non- condensing)
Operating humidity	≤85 % rel. (non- condensing)	≤95 % rel. (non- condensing)	≤85 % rel. (non- condensing)
Protection category	IP40	IP20	IP40

Dimensions and weights			
	Solo770 battery	SCORP 2001 Scorpion ASD head unit	SCORP 8000 Scorpion controller
Dimensions (L x W x H)	81 x 139 x 48 mm	155 x 54 x 34 mm	150 x 155 x 37 mm
Weight	523 g	<200 g	<500 g

Energy supply and charging times	
Nominal power of Solo770 NiMH battery	7.2 V, 3.0 Ah
Charging time	7590 minutes (after battery has completely drained)

Comment:

The Scorpion system was developed for use within the limits stated above.

((RE7T-B1	Detectortesters (No Climb Products Limited), Edison House, 163 Dixons Hill Road, Welham Green, Hertfordshire, AL9 7JE United Kingdom Technical data: see doc. A6V10252901
RE7T-B1 Solo770 Battery for RE7T		
2014/30/EU (EMC): EN 55011 / EN 61000-4-2 / EN 61000-4-3 ; 2014/35/EU (LVD): EN 62133 ; 2011/65/EU (RoHS): EN 50581		
The EU Declaration of conformity (DOC), which is obtainable via Detectortesters (No Climb Products Limited)		
DoC No.: Solo 461 (Solo 460-770-727) New Framework EU Declaration of Conformity-M		

((RE7T-C1	Detectortesters (No Climb Products Limited), Edison House, 163 Dixons Hill Road, Welham Green, Hertfordshire, AL9 7JE United Kingdom Technical data: see doc. A6V10252901	
	RE7T-C1 Solo727 Charger for RET7.		
2014/30/EU (EMC): EN 550	2014/30/EU (EMC): EN 55014-1 / EN 55014-2 ; EN 61000-3-2 / EN 61000-3-3 ; 2014/35/EU (LVD): EN 60335-1 / EN 60335-2-29 ; 2011/65/EU (RoHS): EN 50581		
The EU	The EU Declaration of conformity (DoC), which is obtainable via Detectortesters (No Climb Products Limited)		
DoC No.: Solo 461 (Solo 460-770-727) New Framework EU Declaration of Conformity-M			

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