# TECHNICAL SPECIFICATION FOR SCORPION REMOTE SMOKE TESTER FOR POINT DETECTORS

| REQUIRED SPECIFICATION | COMMITMENT BY TENDERER |
|---|---|
| **Ref   Requirement** | **Make/Model/Detail Information** |

**1.0   GENERAL**

1. This specification sets out the technical requirement to be met for supply, delivery and acceptance of a Remote Smoke Tester suitable for testing point (spot) smoke detectors.

**2.0   SCOPE**

All products listed below must be from the same original manufacturer. Products should not be mixed between different manufacturers in order to comply with the specification.

The kits will be comprising of the following:
1. Scorpion Smoke generating Head Unit with bespoke fixings suitable for installation alongside or behind point detectors.

2. Wall-mounted Control and cabling interface for connection to, and control of, the Head Units.

3. Removable Battery Pack or Battery Baton.

4. Battery Charger specifically for charging the Battery Pack and / or battery Baton.

3.0 **TECHNICAL REQUIREMENT**

**3.1 System Requirements**

3.1.1 The Scorpion system must be able to perform a functional smoke test on point detectors.

2.      Solution must comprise:
- Scorpion Head Unit comprising the smoke generator, bespoke fixings and smoke presenters that can be mounted alongside or behind the detector. Wall-mounted Control Panel or Portable Controller with wall-mounted Access Points. Battery to power the system and charger for the battery.

3.1.3 Each wall-mounted control panel must be able to connect to eight or more head units (smoke generators).

3.1.4 The Portable Controller connects to one Access Point at a time, and is only plugged in when a test is required.

3.1.5 The Scorpion system must be able to accommodate a range of cable sizes and lengths.

3.1.6 The Head Unit shall be able to be wired to a wall mounted Control Panel or Access Point at least 100m cable length away.

3.1.7 The Scorpion system must be CE marked.

3.1.8 The Scorpion system must be a functional smoke tester designed and developed in conjunction with Point detector manufacturers specifically for use on a wide range of point detection systems.

**3.2 Controller**
3.2.1 The wall-mounted Control Panel must allow sequential selection and operation of at least eight smoke generating head units.

3.2.2 The Portable Controller will be a portable type that allows individual heads to be tested when plugged into an approved cabling interface / access point.

3.2.3 The system must have the capability to be disabled when not in use to prevent accidental or malicious operation of the system.

3.2.4 Where battery power is used, the battery must be unique to the manufacturer and removable from the test system to achieve the same outcome as 3.2.2.

3.2.5 The wall-mounted Control Panel shall allow each head unit to be selected individually and the smoke test started and stopped.

3.2.6 The duration of the smoke time must be configurable from either controller, from 5 seconds to

4.0 **QUANTITY**

4.1 The total number of smoke detector testers to be supplied shall be:

Wall-mounted Controller

…….…………......units.

Portable Controller

…….…………......units.

Head units for Point Detectors

…….…………......units.

Access Point

…….…………......units.

Battery Batons:

…….…………......units.

Battery Chargers

…….…………......units.

5.0 **OPERATION / MAINTENANCE MANUAL**

5.1 The successful tenderer shall provide an operation/maintenance manual.

6.0 **WARRANTY**

6.1 The tools supplied are subject to a warranty period of at least one (1) year.

7.0 **INFORMATION AND DOCUMENTATION TO BE SUBMITTED**

7.1 The successful tenderer shall supply copies of the operation manual.

7.1 The tenderer shall submit pamphlets, catalogues, and brochures of the tools.

**Abbreviated version**

The Scorpion tester must be capable of conducting a functional smoke test on point detectors from a wide range of manufacturers. The smoke generating head unit (Part No: Scorp1001-001) must be suitable for mounting either alongside or behind the point detector. It must be capable of delivering in excess of 240 smoke tests of 15 seconds duration each. The smoke must be safe for use in all applications and must be generated and delivered safely and in a controlled manner. The head unit should capable of being wired to a controller (Part No: Scorp8000-001) or an Access Point (Scorp25-001) up to 100m cable length away. It shall be possible to connect at least eight (8) head units to each Scorp8000-001 controller, or a single head unit to a Scorp25-001 Access Point. The Access Point allows a Scorp7000-001 Portable Controller to be used to control the test. Both controllers should be powered from a removable battery (Part No: Solo760 / 770 with Scorp60 cable) to prevent unauthorised testing. The Scorp8000-001 controller should allow each head unit to be selected individually

and start/stop the smoke test, while the Scorp7000-001 plugs into an individual Access point. The duration of the smoke time must be configurable from the controller, from 5 seconds to at least 45 seconds. The system must provide a clearing capability to reduce the chance of the detector re-alarming.