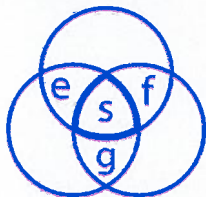




Member of



Certificate of Conformity with European standards for Components and Systems

| Number of Certificate | Valid from dd-mm-yyyy | Valid until dd-mm-yyyy |
|-----------------------|--------------------------|---------------------------|
| EN-ST-000224 | 01-07-2016 | 30-06-2020 |

Subject matter of Certificate:

**smoke generating mashine
Titanium (Ti 70) Smoke Screen**

Owner of Certificate:

**Concept Smoke Screen Limited
1-2 North End
GB-PE20 3LR LINCOLNSHIRE**

Basis for certification:

EN 50131-8:2009

Use, the product disposes of the following parameters:

Intrusion and hold-up systems, Grade 2

The tests were carried out at VdS Schadenverhütung GmbH
and the results are documented in **test report:**

STE 13/1508-AU01 dated 30-06-2016

To guarantee the permanent quality of products a regular surveillance of the manufacturing process is performed.

This certificate comprises 5 pages and shall only be reproduced without any modifications and including all enclosures.

VdS Schadenverhütung GmbH
Certification Body
Amsterdamer Str. 174
D-50735 Köln

A company of the German
Insurance Association (GDV)
accredited by DAkkS as certifica-
tion body for fire protection and
security products



Date: 01-07-2016

Managing director

Head of certification body

To Certificate No.: EN-ST-000224

Date : 01-07-2016

The approved component/system comprises the following parts:

| Description of component | Type | Applicant's Registration No. | Approval number of component (only complete for system approval) |
|--|----------------------------|------------------------------|--|
| <p>Fog Generator consisting of:</p> <ul style="list-style-type: none"> - Powder coated, vandal resistant, metal housing and cover (tamper monitored), 2 engineering compartments accessed via tamper monitored covers, additional safety guards and covers and covers Additional protective guards on ventilation slots - Dimensions of device: 470 mm(H) x 310 mm (W) x 130 mm (D) - Weight of device: 14.3 kg (installation weight), 19 kg (incl. fluid and batteries) - Precision machined steal heat exchanger with machined brass fog ejection nozzle (interchangeable) - Fog fluid reservoir with fluid level sensor - 1 high pressure, continuously rated, fog fluid pump - automatic temperature cut-off breaker (manual reset) - 2 rechargeable batteries with min. 12V/2,1Ah - electrical terminal block with fuses and automatic circuit breakers - Lid contact - Mounting bracket (wall and ceiling) | <p>EX5</p> <p>WP 1223A</p> | | |



Enclosure 1

To Certificate No.: EN-ST-000224

Date : 01-07-2016

The approved component/system comprises the following parts:

| Description of component | Type | Applicant's Registration No. | Approval number of component (only complete for system approval) |
|--|------|------------------------------|--|
| <ul style="list-style-type: none">- Mainboard PCB with software version 1.0 with: Event log stored on non-volatile flash Inputs: set, alarm, hold-off, external tamper Outputs: ready, fog verification, fluid low, fluid empty, mains failure, battery failure, tamper- Programming interface comprising push button operated LCD, LED indicators and audible indications- Inputs that enable automatic re-triggering via suitable detector (i.e. fog density sensor)- 2 industrial grade heating elements | | | |

**Enclosure 2****Sheet 1**

To Certificate No.: EN-ST-000224

Date : 01-07-2016

The approved component/system is described as follows:

| Type of document | Manufacturer's identification | Date | Number of Pages |
|---|-------------------------------|------------|-----------------|
| Description | | | |
| - Table of Content | P2161182-TZ1000 | | 03 |
| User Documentation | | | |
| - CONCEPT S70 installer manual | P2161182-TZ1001 | | 20 |
| - CONCEPT S70 user guide | P2161182-TZ1002 | 01.10.2014 | 08 |
| - CONCEPT S70 inspection schedule | P2161182-TZ1003 | 01.10.2014 | 08 |
| Technical Documentation | | | |
| - Parts list exploded diagram | P2161182-TZ2001 | 20.06.2016 | 01 |
| - Machine external dimensions | P2161182-TZ2002 | 17.12.2014 | 01 |
| - Machine internal layout | P2161182-TZ2003 | 06.03.2016 | 02 |
| - Machine internal metal work | P2161182-TZ2004 | 07.06.2016 | 18 |
| - Heater block dimensions drawing | P2161182-TZ2005 | 07.06.2016 | 01 |
| - Machine nozzle drawing | P2161182-TZ2006 | 07.06.2016 | 01 |
| - Machine flow chart | P2161182-TZ2007 | 16.06.2016 | 03 |
| - Main PCB component description | P2161182-TZ2008 | 22.01.2015 | 02 |
| - Main PCB schematic and layout | P2161182-TZ2009 | 20.06.2016 | 10 |
| - LCD PCB schematic and layout | P2161182-TZ2010 | 20.06.2016 | 02 |
| - Battery protection PCB schematic and layout | P2161182-TZ2011 | 22.04.2014 | 03 |
| Ancillary documentation | | | |
| - Heater datasheet | P2161182-TZ3001 | 12.11.2015 | 01 |
| - Transformer datasheet | P2161182-TZ3002 | 01.12.2013 | 04 |
| - Battery datasheet | P2161182-TZ3003 | 06/2016 | 01 |
| - Material Safety Data Sheet Fluid R | P2161182-TZ4001 | 02/2016 | 02 |
| - Safety Certificate Fluid R | P2161182-TZ4002 | 28.05.2014 | 06 |

To Certificate No.: EN-ST-000224

Date : 01-07-2016

Instructions for the application of the approval component/system (see enclosure 1):

As to approval ST000224:

1. Fog generators may be triggered exclusively by VdS-approved IASs as a response to an intruder signal raised by intruder detectors. They shall never respond to a hold-up alarm. The IAS to this end shall be equipped with remote alarm transmission to an alarm receiving and service control center or with a direct line to the police – which in turn requires previous approval by the police and also the installation of an external alarming system.

Note: External alarming shall not be delayed in this case.

2. Use of fog generators shall be coordinated with the local fire brigade and the police forces, both authorities shall be informed not only of the existence of such devices but also of their functionality – including possibilities for ventilation (see also VdS 2311, Section H.1.10). Police and fire brigade shall also be aware that alarm plans should be supplemented accordingly.
3. It is important to ensure as far as possible that fog generators cannot be released erroneously or by mistake. Under no circumstances they shall be released
 - by hold-up signals
 - by an unset IAS
 - by an internally set IAS and
 - by a total power failure of the IAS.

Connection of a fog generator to an IAS shall take place not before the IAS during the past 6 months of operation at a minimum has raised no false alarms.

4. Information on power supply failures of the fog generator of more than 20 minutes in duration shall be transmitted at once to the maintenance staff, an authorized body (e.g. security company) or any other permanently manned place on the operator's premises (e.g. gatehouse).

Note: Power supply failures of the fog generator shall be remedied soonest possible. Corrective action shall be agreed with the insurer (e.g. repair of the power failure within 3 hours).