



# IECEX Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit [www.iecex.com](http://www.iecex.com)

Certificate No.: IECEx BAS 08.0092X issue No.:4

Status: Current

Date of Issue: 2015-07-14 Page 1 of 4

Certificate history:  
Issue No. 4 (2015-7-14)  
Issue No. 3 (2015-1-14)  
Issue No. 2 (2011-2-3)  
Issue No. 1 (2009-2-5)  
Issue No. 0 (2008-10-24)

Applicant: **Pittway Tecnologica S.r.l.**  
Via Caboto 19/3  
34147 Trieste  
Italy

Electrical Apparatus: **22051EISE Photo/Optical Detector**  
Optional accessory:


Type of Protection: **Intrinsic Safety**

Marking: **Ex ia IIC T5 Ga (-20°C ≤ Ta ≤ +40°C)**  
**Ex ia IIC T4 Ga (-20°C ≤ Ta ≤ +60°C)**

Approved for issue on behalf of the IECEx Certification Body: R S Sinclair

Position: Technical Manager

Signature:  
(for printed version)

  
\_\_\_\_\_  
14-7-15

Date:

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the [Official IECEx Website](http://www.iecex.com).

Certificate issued by:

**SGS Baseefa Limited**  
Rockhead Business Park  
Staden Lane  
Buxton  
Derbyshire  
SK17 9RZ  
United Kingdom





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Manufacturer: **Pittway Tecnologica S.r.l.**  
Via Caboto 19/3  
34147 Trieste  
Italy

Additional Manufacturing location  
(s):

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended.

#### STANDARDS:

The electrical apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

**IEC 60079-0 : 2011** Explosive atmospheres - Part 0: General requirements  
Edition: 6.0

**IEC 60079-11 : 2011** Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"  
Edition: 6.0

*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*

#### TEST & ASSESSMENT REPORTS:

*A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in*

##### Test Report:

[GB/BAS/ExTR08.0198/00](#)  
[GB/BAS/ExTR14.0369/00](#)

[GB/BAS/ExTR08.0245/00](#)  
[GB/BAS/ExTR15.0185/00](#)

[GB/BAS/ExTR11.0023/00](#)

##### Quality Assessment Report:

[GB/BAS/QAR06.0016/06](#)



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## Schedule

### EQUIPMENT:

*Equipment and systems covered by this certificate are as follows:*

The 22051EISE Intelligent Photo/Optical Smoke Detector is designed to detect the presence of smoke within a photo electronic sensing chamber and provide a local alarm indication by two LEDs and an alarm signal for connection to a remote control panel via a dedicated Galvanic Isolator with an IST200 Translator Module. Two rotary decade address switches are provided to set the sensor address between 00 and 99. The Detector may be tested for correct operation by use of an external test magnet which actuates an internal reed switch. The Smoke Detector is mounted on a fixed Base Unit Type B501AP which contains the field terminals for connection to the Galvanic Isolator and / or a subsequent Smoke Detector in the daisy chain.

The Smoke Detector comprises an outer plastic cover which has four openings which are protected by a wire gauze screen which permits smoke particles to enter the sensing chamber. Two LEDs are visible externally and provide the local alarm indication. The electronic components are mounted on the underside of a single printed circuit board. Three spring connectors pass the connections between the fixed base unit and the Smoke Detector. The rotary decade address switches are set on installation and are only accessible when the Smoke Detector is separated from the fixed base unit.

$$U_i = U_o = 28V$$

$$I_i = I_o = 94mA$$

$$P_i = P_o = 0.7W$$

$$C_i = 0$$

$$L_i = 0$$

### CONDITIONS OF CERTIFICATION: YES as shown below:

1) The 22051EISE Intelligent Photo/Optical Smoke Detector is considered to present an electrostatic hazard and must not be rubbed or cleaned in a hazardous area. A Warning Label is attached:- "Warning Electrostatic Hazard. Do not clean with a dry cloth"



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## DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

### Variation 4.1

To confirm that the equipment covered by this certificate has been reviewed against the requirements of IEC 60079-0:2011 & IEC 60079-0:2011:2011 in respect of the differences from IEC 60079-0:2004 & IEC 60079-11:2006 and that none of these differences affect this equipment. The equipment may continue to be marked:-  
Ex ia IIC T5 / T4 Ga (-20°C ≤ Ta ≤ 40°C / 60°C)

### Variation 4.2

To permit minor changes to the manufacturing drawing for the IDX-751AE variant enclosure cover, which now specifies the colour as pure white. There are no physical changes to the equipment.

ExTR: GB/BAS/ExTR15.0185/00

File Reference: 15/0338