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

Certificate No.:	IECEx BAS 08.0092X	issue No.:1	**Certificate history:** Issue No. 1 (2009-2-5) Issue No. 0 (2008-10-24)
Status:	**Current**		
Date of Issue:	**2009-02-05**	Page 1 of 4	

Applicant: **Pittway Technologica 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: Managing Director

Signature:
(for printed version)

Date: 5-2-09

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.

Certificate issued by:

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

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

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 : 2004 Edition: 4.0	Electrical apparatus for explosive gas atmospheres - Part 0: General requirements
IEC 60079-11 : 2006 Edition: 5	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
IEC 60079-26 : 2006 Edition: 2	Explosive atmospheres - Part 26: Equipment with equipment protection level (EPL) Ga

*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/ExTR08.0245/00

Quality Assessment Report:
GB/BAS/QAR06.0016/01

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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 1.1

To permit the introduction a drawing for the standard cover for the 22051EISE Intelligent Photo/Optical Smoke Detector.

Variation 1.2

To permit the 22051EISE Intelligent Photo/Optical Smoke Detector to be marked as TC842B1007 AE or 2251EISJ. The Smoke Detector is physically unchanged, but a change in protocol is achieved via selection of alternatives in the software. The input and output parameters and the certification code are not affected by these changes.

Variation 1.3

To permit the 22051EISE Intelligent Photo/Optical Smoke Detector to have minor mechanical changes to the cover and be marked as IDX-751 AE. The Smoke Detector has a change in protocol which is achieved via selection of alternatives in the software. The input and output parameters and the certification code are not affected by these changes.

ExTR: **GB/BAS/ExTR08.0245/00**	File Reference: **08/0847**