

# (1) EC-TYPE EXAMINATION CERTIFICATE

(2) **Equipment and protective systems intended for use in potentially explosive atmospheres - Directive 94/9/EC**

(3) EC-Type Examination Certificate Number: **KEMA 06ATEX0215** Issue Number: 1

(4) Equipment: **Photo Ionization Gas Detector Model PGM-30**

(5) Manufacturer: **RAE Systems Inc.**

(6) Address: **No. 788 Zhaoxian Road, Jiading District, Shanghai 201821, P.R. China**

(7) This equipment and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

(8) KEMA Quality B.V., notified body number 0344 in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the directive.

The examination and test results are recorded in confidential test report number 2094083.

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

**EN 50014 : 1997 + A1, A2**

**EN 50020 : 2002**

(10) If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this certificate.

(11) This EC-Type Examination Certificate relates only to the design, examination and tests of the specified equipment according to the Directive 94/9/EC. Further requirements of the directive apply to the manufacturing process and supply of this equipment. These are not covered by this certificate.

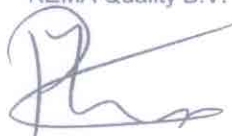
(12) The marking of the equipment shall include the following:



**II 2 G EEx ia IIC T4**

This certificate is issued on 21 November 2006 and, as far as applicable, shall be revised before the date of cessation of presumption of conformity of (one of) the standards mentioned above as communicated in the Official Journal of the European Union.

KEMA Quality B.V.



P.B.A. Jansen  
Certification Manager





(13) **SCHEDULE**

(14) **to EC-Type Examination Certificate KEMA 06ATEX0215** **Issue No. 1**

(15) **Description**

The Photo Ionization Gas Detector Model PGM-30 is used for detection of organic vapours. It incorporates a sampling pump, an audio buzzer and flashing red LED alarms to indicate exceeded preset limits, low battery or lamp failure.

Ambient temperature range -20 °C ... +40 °C.

**Electrical data**

Internal supply and measurement circuit..... In type of protection intrinsic safety EEx ia IIC. The circuit may only be powered by two non-rechargeable, in series connected, 1,5 V Alkaline Manganese Dioxide (Zn/MnO<sub>2</sub>) batteries Duracell Plus AAA (LR03) Type MN2400.

The functional aspects for the detection of organic vapours are not included in this approval.

(16) **Test Report**

KEMA No. 2094083.

(17) **Special conditions for safe use**

None.

(18) **Essential Health and Safety Requirements**

Assured by compliance with the standards listed at (9).

(19) **Test documentation**

As listed in Test Report No. 2094083.