

## (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 07ATEX0127** Issue Number: **2**

(4) Equipment: **Portable Handheld VOC Monitors: MiniRAE 3000, (PGM 7320), ppbRAE 3000, (PGM 7340), MiniRAE Lite 3000, (PGM 7350), UltraRAE 3000, (PGM 7360)**

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

(6) Address: **3775 North First St., San Jose, CA 95134, USA**

(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 213695300.

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

**EN 60079-0 : 2009**

**EN 60079-11 : 2007**

(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 Ex ia IIC T4 Gb** (with Li-ion or NiMH battery pack)

**II 2 G Ex ia IIB T4 Gb** (with alkaline battery pack)

This certificate is issued on September 25, 2010 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.

T. Pijpker  
Certification Manager



Page 1/2

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(13) **SCHEDULE**

(14) **to EC-Type Examination Certificate KEMA 07ATEX0127**

Issue No. 2

(15) **Description**

The MiniRAE 3000, ppbRAE 3000, MiniRAE Lite 3000 and UltraRAE 3000 are handheld volatile organic compound (VOC) monitors.

Ambient temperature range -20 °C to +50 °C.

**Electrical data**

The unit is powered by:

- a non-rechargeable alkaline (IIB) battery pack 059-3052-000, or
- a rechargeable Li-ion (IIC) battery pack 059-3051-000, or
- a rechargeable NiMH (IIC) battery pack (059-3054-000).

All battery packs contain energy limiting components to limit each battery output to intrinsically safe levels.

**Installation instructions**

The manual provided with the equipment shall be followed in detail to assure safe operation.

(16) **Test Report**

KEMA No. 213695300.

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

None.

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

Covered by the standards listed at (9).

(19) **Test documentation**

As listed in Test Report No. 213695300.