

# (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 05ATEX1173** Issue Number: 1

(4) Equipment: **Personal Radiation Detectors Model PRM 3000, PRM 3020 and PRM 3040**

(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 no. 2086021.

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

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

**EN 50020 : 2002**

**EN 50284 : 1999**

(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.

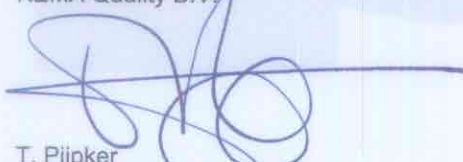
(11) This EC-Type Examination Certificate relates only to the design, examination and tests of the specified equipment according to the Directive 94/9/EC. Further requirements of the directive apply to the manufacturing process and supply of this equipment. These are not covered by this certificate.

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



**II 1 G EEx ia IIC T4**

Arnhem, 15 June 2006  
KEMA Quality B.V.

  
T. Pijpker  
Certification Manager



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(13) **SCHEDULE**

(14) **to EC-Type Examination Certificate KEMA 05ATEX1173**

Issue Number: 1

(15) **Description**

The unit is a handheld Personal Radiation Detector for detection of neutron and gamma ray sources. Model PRM 3000 (GammaRAE II) and Model PRM 3040 (GammaRAE II Responder) detect only gamma rays and Model PRM 3020 (NeutronRAE II) detects both gamma and neutron rays.

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

**Electrical data**

The unit shall only be powered by two "AA" batteries of one of the following types:

- Duracell MN1500
- Energizer E91

**Installation instructions**

None.

**Routine tests**

None.

(16) **Test Report**

KEMA No. 2086021.

(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. 2086021.