

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 DNV 07.0004X	issue No.:0	Certificate history:
Status:	Current		
Date of Issue:	2007-10-30	Page 1 of 4	
Applicant:	Rae Systems Inc 3775 North First Street San Jose CA95134 United States of Americ	a	
Electrical Apparatus: Optional accessory:	Personal Toxic Gas Mor	nitor: ToxiRAE 3 model PGM	1700
Type of Protection:	Ex ia IIC T4		
Marking:	Ex ia IIC T4 -20C ≤ Tamb ≤ +60C		
Approved for issue on behalf of the IECEx Steinar Kristensen Certification Body:			
Position:		Certification Manager	
Signature: (for printed version)		Steiner Knistense	<u> </u>
Date:		31/10-2007	
 This certificate and schedule may only be reproduced in full. This certificate is not transferable and remains the property of the issuing body. The Status and authenticity of this certificate may be verified by visiting the Official IECEx Website. 			
Certificate issued by:			

Det Norske Veritas (DNV) Certification AS Veritasveien 1 1322 Hovik Norway





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Manufacturer:

Rae Systems Inc. 3775 North First Street San Jose CA95134 United States of America

Manufacturing location(s):

RAE Systems (Shanghai) Inc No. 788 Zhaoxian Road, JiaDing District, Shanghai 201821 China

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 manufacture'rs 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

Electrical apparatus for explosive gas atmospheres - Part 0: General requirements

Edition: 4.0

IEC 60079-11 : 2006

Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"

Edition: 5

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:

NO/DNV/ExTR07.0005/00

Quality Assessment Report:

NO/DNV/QAR06.0003/00 NO/DNV/QAR06.0004/00



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

ToxiRAE 3 is a personal single gas monitor for continuously display of toxic gas concentrations, STEL, TWA and Peak values as well as high, low STEL and TWA alarms. The physical dimensions are 85mm x 54 x 20mm without clip. The weight is 100g. It is small handheld and battery powered, housed in a dark conductive plastic back, stainless steel/PC front partially covered with a soft thermoplastic electrically conductive material. Audible and visual alarm indicators are included. The visual alarm comprises an Red/Green LED bar visual from the top. An imbalanced motor produces a vibration alert when in alarm mode. An infrared communication port allows galvanic isolated data transfer between the handheld instrument and a PC.

CONDITIONS OF CERTIFICATION: YES as shown below:

It is a condition of safe use that the apparatus must be powered by non rechargeable cells of the following type only. EVE ER14335 Lithium-thionyl Choloride, Size 2/3AA, 3.6 Volts



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EQUIPMENT(continued):

Nomenclature for ToxiRAE 3 type for each sensor type:

ToxiRAE 3 – Model No
PGM1700 CO
PGM1700 H2S
PGM1700 NH3
PGM1700 CO2000
PGM1700 CL2
PGM1700 CL02
PGM1700 HCN
PGM1700 H2S1000
PGM1700 NO
PGM1700 NO2
PGM1700 O2
PGM1700 PH3
PGM1700 SO2
PGM1700 HF
PGM1700 HCL
PGM1700 CH3SH
PGM1700 ETO
PGM1700 O3