



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 SIR 15.0039X issue No.:0 Certificate history:

Status: **Current**

Date of Issue: **2015-09-21** Page 1 of 4

Applicant: **RAE Systems Inc.**
3775 North First Street
San Jose
California 95134
United States of America

Electrical Apparatus: **PGM-26XX 4-Gas Portable Gas Monitor**
Optional accessory:

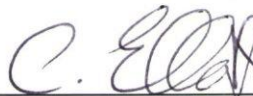
Type of Protection: **Intrinsically Safe and Flameproof**

Marking: Ex ia I Ma
Ex ia d IIC T4 Gb

Approved for issue on behalf of the IECEx Certification Body: C Ellaby

Position: Deputy Certification Manager

Signature:
(for printed version)



2015-09-21

Date:

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](http://www.iecex.com).

Certificate issued by:

SIRA Certification Service
CSA Group
Unit 6, Hawarden Industrial Park
Hawarden
Deeside
CH5 3US
United Kingdom

sira
CERTIFICATION





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Manufacturer: **RAE Systems Inc**
3775 North First Street
San Jose
California 95134
United States of America

Additional Manufacturing location(s):

**RAE Systems (Shanghai)
INC.**

No.990 E. Huiwang Road
JIADING DISTRICT
Shanghai 201815
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 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 : 2011 Edition: 6.0	Explosive atmospheres - Part 0: General requirements
IEC 60079-1 : 2014-06 Edition: 7.0	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
IEC 60079-11 : 2011 Edition: 6.0	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"

*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/SIR/ExTR15.0234/00

Quality Assessment Report:

NO/DNV/QAR06.0003/05

NO/DNV/QAR06.0004/05



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The PGM26XX is a portable, battery-powered, four-gas monitor that is housed in a plastic enclosure with additional stainless steel and rubber for protection. It is designed to be hand-held or attached to the person by means of a belt clip. The equipment includes two toxic sensors, one LEL sensor and one oxygen sensor, it also incorporates a liquid crystal display as well as an alarm with visual, audible and vibrating modes.

The equipment has an optional add-on modem that provides GPS (Mesh/WiFi/BLE) and also enables tracking of the device.

The PGM26XX has no electrical connections while in the hazardous area. It may be charged in the non-hazardous area only: Um = 6.0 Vdc, maximum charging current 1900 mA.

CONDITIONS OF CERTIFICATION: YES as shown below:

1. The PGM-26XX shall only be charged using a charger specifically supplied for use with the unit (for example part number 3A-066WPxx or 3A-401WP12, manufactured by ENG Electric), approved as SELV or Class 2 equipment against IEC 60950 or an equivalent IEC standard. The maximum voltage from the charger shall not exceed 6.0 Vdc. Likewise, any data download device connected to the PGM-26XX shall also be approved SELV or Class 2 equipment.



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EQUIPMENT(continued):

Conditions of manufacture

The Manufacturer shall comply with the following:

1. The PGM-26XX incorporates a flammable gas sensing head, certified under IECEx FTZU 14.0019U (Group II) and IECEx DEK 15 0031U (Group I). It is therefore the responsibility of the RAE Systems to continually monitor the status of the certifications associated with this device. RAE Systems shall inform Sira of any modifications to the device that may impinge upon the explosion safety design of the PGM-26XX.