



Certificate of Compliance

Certificate: 70068037

Master Contract: 217005

Project: 70094032

Date Issued: 2016-08-31

Issued to: RAE Systems, Inc.
3775 North First St
San Jose, California 95134
USA
Attention: James Pan

The products listed below are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US or with adjacent indicator 'US' for US only or without either indicator for Canada only.



Issued by: Jack Chin
Jack Chin

PRODUCTS

CLASS - C482801 - SIGNAL APPLIANCES --Combustible Gas Detection Instruments-For Hazardous Locations
CLASS - C482881 - SIGNAL APPLIANCES-Combustible Gas Detection Instruments-For Hazardous Location-
Certified to U.S. Standards

For details related to rating, size, configuration, etc. reference should be made to the CSA Certification Record or the descriptive report.

Class I, Division 2, Groups A, B, C, and D

- PGM-65XXX Multiple Gas Detector for Combustible Gas LEL, Oxygen and Toxics. Transportable, Battery operated with Temperature code: T4 @ Ta=50 °C when used with rechargeable RAE 6.4V, 10 Ah battery pack W01-3007-000 or RAE 6.4V, 12 Ah battery pack W01-3007-100. Optional RAEMet sensor and Gamma ray sensor may be installed. Relay contacts rated: 24Vdc, 250 mA max. The external devices that are to be connected to the relay connector of the PGM-65XXX must be suitable for the hazardous location where they are mounted.

Note 1: The above instrument was only performance tested for combustible gas at Ta = -20 °C to 50 °C and have been found to be acceptable as an local indicator/alarm of the presence of the flammable gases and vapors within the scope of the certification when used in accordance with the manufacturer's instructions.



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Note 2: The conditions of certification are as follows:

- (i) Connection must only be made to the Vdc input jack and to the USB communication port when the instrument is in non-hazardous location or unless the area is known to be non-hazardous.
- (ii) The battery pack shall only be charged or replaced in a non-hazardous location.
- (iii) The sensors shall only be replaced in a non-hazardous location.
- (iv) The external connection to the PGM-65XXX shall be in accordance to control drawing W01-0901-CTL. For relay connector, the external devices that are to be connected to PGM-65XXX must be suitable for the hazardous location where they are mounted, and supplied from a Class 2 power supply or equivalent. The wiring method shall be to local electrical code and installation are subject to acceptance by authority having jurisdiction.

APPLICABLE REQUIREMENTS

C22.2 No. 152-M1984	Combustible Gas Detection Instruments
C22.2 No. 213-16	Nonincendive Electrical Equipment for Use in Class I and II, Division 2 and Class III, Divisions 1 and 2 Hazardous (Classified) Locations
C22.2 No. 61010-1:12	Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use, Part 1: General Requirements
ISA 12.12.01-2015	Nonincendive Electrical Equipment for Use in Class I and II, Division 2 and Class III, Divisions 1 and 2 Hazardous (Classified) Locations
ISA 60079-29-1 (12.13.01-2013)	Explosive Atmospheres - Part 29-1: Gas detectors - Performance requirements of detectors for flammable gases
UL 61010-1:2012	Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use, Part 1: General Requirements

MARKINGS

- Company identification or Master Contract Number (217005)
- Model number
- Serial number (or date code)
- Electrical rating
- Hazardous locations designation
- CSA Monogram with adjacent indicators, 'C' and 'US'
- "C22.2 No. 152-M1984" and "ANSI/ISA-12.13.01-2013" adjacent to CSA Monogram
- Maximum ambient with related T Code T4
- Warnings in French and English - READ AND UNDERSTAND INSTRUCTION MANUAL BEFORE OPERATING OR SERVICING."
- Warning in French and English User Manual or equivalent:
USE ONLY BATTERY PACK W01-3007-000 or W01-3007-100. DO NOT CHARGE OR REPLACE BATTERY PACK IN HAZARDOUS LOCATION.
DO NOT CONNECT EXTERNAL CABLE TO USB PORT IN A HAZARDOUS LOCATION.
DO NOT REPLACE SENSORS IN A HAZARDOUS LOCATIONS.
SUBSTITUTION OF COMPONENTS MAY IMPAIR SUITABILITY FOR USE CLASS I, DIV. 2 HAZARDOUS LOCATION.
Relay connector- WARNING – EXPLOSION HAZARD. DO NOT CONNECT OR DISCONNECT UNLESS AREA IS KNOWN TO BE NON-HAZARDOUS.



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Li-Ion Battery Pack

- Company identification
- Part number
- Warning in French and English: DO NOT CHARGE OR REPLACE BATTERY PACK IN HAZARDOUS LOCATIONS or equivalent. USE ONLY BATTERY PACK W01-3007-000 or W01-3007-100.

Supplement to Certificate of Compliance

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*The products listed, including the latest revision described below,
are eligible to be marked in accordance with the referenced Certificate.*

Product Certification History

Project	Date	Description
70094032	2016-08-31	Update Report 70068037 to add RAE 6.4V, 12Ah battery pack W01-3007-100.
70068037	2016-07-23	Original certification of RAE Systems PGM-65XXX Battery operated transportable multiple gas detector for use in Class I, Div 2 hazardous locations.