



CSA INTERNATIONAL

Certificate of Compliance

Certificate: 1843320 (LR 90397)

Master Contract: 181472

Project: 2040128

Date Issued: 2008/10/03

Issued to: Crowcon Detection Instruments

Limited
2 Blacklands Way
Abingdon Business Park
Abingdon, Oxfordshire OX14 1DY
United Kingdom
Attention: Eric Macey

The products listed below are eligible to bear the CSA Mark shown



Issued by: Glenn Black

Authorized by: Patricia Pasemko, Operations
Manager

PRODUCTS

CLASS 4828 02 - SIGNAL APPLIANCES - Toxic Gas Detection Instruments - For
Hazardous Locations

CLASS 4828 01 - SIGNAL APPLIANCES - - Combustible Gas Detection Instruments-For
Hazardous Locations

CLASS 4828 01

Class I, Division 1, Groups A, B, C and D:

Ex ia d IIC T4:



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“Gasman”, single gas combustible detector, portable, battery operated, intrinsically safe when used with the rechargeable Li-ion battery cell Samsung type ICP653450T or Sanyo type UF553450Z. Ambient temperature range is -20 Deg. C to +65 Deg. C. Temperature Code is T4.

CLASS 4828 02:

Class I, Division 1, Groups A, B, C and D:

Ex ia IIC T4:

“Gasman”, single gas oxygen or toxic detector, portable, battery operated, intrinsically safe when used with the rechargeable Li-ion battery cell Samsung type ICP653450T or Sanyo type UF553450Z and the following type CR2 Lithium cell: Panasonic Power Lithium. Ambient temperature range is -20 Deg. C to +65 Deg. C. Temperature Code is T4.

“GasAlarm”, single gas oxygen or H2S detector, portable, battery operated, intrinsically safe when used with the rechargeable Li-ion battery cell Samsung type ICP653450T or Sanyo type UF553450Z and the following type CR2 Lithium cell: Panasonic Power Lithium. Ambient temperature range is -20 Deg. C to +65 Deg. C. Temperature Code is T4.

APPLICABLE REQUIREMENTS

Gasman combustible version:

CAN/CSA-C22.2 No. 0-M91 General Requirements – Canadian Electrical Code, Part II

CAN/CSA-E60079-0:02 Electrical equipment for explosive atmospheres – Part 0: General requirements

CAN/CSA-E60079-11:02 Electrical apparatus for explosive atmospheres – Part 11: Intrinsic Safety

CAN/CSA-E60079-1:02 Electrical apparatus for explosive atmospheres – Part 1: Flameproof

CSA Std C22.2 No.30-M1986 Explosion-Proof Enclosures for Use in Class I Hazardous Locations

CSA Std C22.2 No.152-M1984 Combustible Gas Detection Instruments

CSA Std C22.2 No.157-92 Intrinsically Safe and Non-Incendive Equipment for Use in Hazardous Locations

Gasman and GasAlarm toxic version:

CAN/CSA-C22.2 No. 0-M91 General Requirements – Canadian Electrical Code, Part II

CAN/CSA-E60079-0:02 Electrical equipment for explosive atmospheres – Part 0: General requirements



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CAN/CSA-E60079-11:02 Electrical apparatus for explosive atmospheres – Part 11: Intrinsic Safety

CSA Std C22.2 No.157-92 Intrinsically Safe and Non-Incendive Equipment for Use in Hazardous Locations

MARKINGS

- CSA Monogram;
- Submitter Identification;
- Model Number;
- Serial number, date code or month and year of manufacture;
- Wording re: Intrinsically Safe;
- Hazardous location designation: Class I, Division 1, Groups A, B, C and D;
- Temperature Code: T4;
- The words "C22.2 No. 152 when fitted with a combustible sensor. Ex ia d IIC";
- The words "when a combustible sensor is not fitted. Ex ia IIC";
- Warning re: Understand manual before operation;
- Warning re: Charge or change batteries in a safe area;
- CSA 2007 1843320;
- Exia;
- Wording re: Ambient temperature range is -20 Deg. C to +65 Deg. C



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Supplement to Certificate of Compliance

Certificate: 1843320

Master Contract: 181472

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
2040128	2008/10/03	Update to Cover New Encapsulant, battery, sensor and new model GasAlarm
1843320	2007/02/08	Original Certification