



Certificate of Compliance

Certificate: 2008234

Master Contract: 167534 (024321_0_000)

Project: 70157207

Date Issued: 2017-10-25

Issued to: MSA - The Safety Company
1000 Cranberry Woods Dr
Cranberry Township, Pennsylvania 16066-5296
USA
Attention: Stephen Kancel

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: Behzad Nejad
Behzad Nejad, P.Eng.

PRODUCTS

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

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

Combustible gas detector, Model Altair 4, portable, battery operated, intrinsically safe when used with one self-contained 3.7 V rechargeable Lithium-ion battery. Temperature Code T4. Tamb. –20 Deg. C to +50 Deg. C. May be used with MSA Universal Pump Probe portable, battery operated, intrinsically safe when used with two 1.5V size AA Alkaline batteries, Models Duracell MN1500 or Energizer E91 or Varta 4006. Temperature Code T4. Tamb. –20 Deg. C to +50 Deg. C.

Combustible gas detector, Model Altair 4X, portable, battery operated, intrinsically safe when used with one self-contained 3.7 V rechargeable Lithium-ion battery. Temperature Code T4. Intrinsic Safety Tamb. –40 Deg. C to +54 Deg. C. Performance (C22.2 No. 152) Tamb. –20 Deg. C to +54 Deg. C. May be used with MSA Universal Pump Probe portable, battery operated, intrinsically safe when used with two 1.5V size AA Alkaline batteries, Models Duracell MN1500 or Energizer E91 or Varta 4006. Temperature Code T4. Tamb. –20 Deg. C to +50 Deg. C.



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CLASS - 4828 81 - SIGNAL APPLIANCES - Combustible Gas Detection Instruments - For Hazardous Locations -CERTIFIED TO U.S. STANDARDS

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

Combustible gas detector, Model Altair 4X, portable, battery operated, intrinsically safe when used with one self-contained 3.7 V rechargeable Lithium-ion battery. Temperature Code T4. Intrinsic Safety Tamb. –40 Deg. C to +54 Deg. C. Performance (C22.2 No. 152) Tamb. –20 Deg. C to +54 Deg. C.

APPLICABLE REQUIREMENTS

CAN/CSA-C22.2 No. 0-M91	General Requirements – Canadian Electrical Code, Part II
CAN/CSA-C22.2 No.157-92	Intrinsically Safe and Non-Incendive Equipment for Use in Hazardous Locations
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
ANSI/ISA-12.13.01-2003	Performance Requirements for Combustible Gas Detectors.
UL913 5th edition	Intrinsically Safe Apparatus and Associated Apparatus for Use in Class I, II and III, Division 1, Hazardous Locations

MARKINGS

- Submitter Identification;
- Model Number;
- Serial Number, Date Code or Month and Year of Manufacture;
- Hazardous locations designation;
- The words “ Intrinsically Safe ”;
- The symbol “Exia”;
- Ambient Temperature;
- Temperature Code;
- Warning: Substitution of components may impair intrinsic safety;
- The words “C22.2 No. 152”;
- Warning: understand manual before operating;

Universal Pump Probe label material:

Appear on CSA Accepted adhesive nameplate material by:

1. Butler Technologies - 3M 467 Polycarbonate.
2. Label Graphics Type - dull silver polyester (computer printable).

Universal Pump Probe Label Wording:

- CSA Monogram;



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- Hazardous locations designation;
- The words “ Intrinsically Safe ”;
- The symbol “Exia”;
- Ambient Temperature;
- Temperature Code;
- Warning: Substitution of components may impair intrinsic safety;
- The words “C22.2 No. 152”;
- Wording re: Do not change or charge batteries in a hazardous location;
- Warning re: Read and Understand Manual;
- Wording re: use only with MSA Models Solaris, Solaris FIRE, Solaris LX, Solaris LX FIRE, Altair 4 and Altair 4X.



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
70157207	2017-10-25	Evaluation to update report 2008234 to reflect changes in manual.
70117958	2017-03-31	Update to Report# 2008234 of the Altair 4X Series to include update of PCB from Rev. 5 to Rev. 6. On page 20 of drawing changed trace to teardrop pattern per diagram as shown in document GCA-489 ACR.
2561927	2012-09-20	Update to Report 2008234 to include revisions to the instruction manual per ACR490528.
2536585	2012-06-28	Update to Report 2008234 to include drawing SK3098-1136 revision 3 per ACR490472.
2498311	2012-02-23	Update to report 2008234 to cover a revised manual for the Altair 4X per ACR 490413.
2490810	2012-01-27	Update to report 2008234 to cover an investigation into a marking issue (LRMD - 2011 – 0642) and add the US Certification to the Altair 4X.
2450366	2011-09-20	Update to report to include drawing SK3098-1136 revision 2 per ACR 490325.
2418589	2011-04-26	Update of report 2008234 to include Firmware revision to the Xcell combustible sensor per ACR490275.
2389119	2011-01-21	Update to report 2008234 to cover a software revision and clarification on a drawing.
2344679	2010-11-09	Update of report 2008234 to include revised new Model Altair 4X.
2222110	2009-09-23	update of report 2008234 to include Software revision per ACR 490054
2083843	2008-09-19	update to cover revise alt. overmold material description from black "(BLK/BLK)" to "IN ANY COLOR" per ACR 483257 and pump label wording changes per ACR483251.
2008234	2008-06-11	Original Certification