



# 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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- Submitter Identification;
- Model Number;
- Serial Number, Date Code or Month and Year of Manufacture;
- Hazardous locations designation;
- The words “ Intrinsicly 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**

| <b>Project</b> | <b>Date</b> | <b>Description</b>  |
|----------------|-------------|---|
| 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  |