



# Certificate of Compliance

**Certificate:** 2675834

**Master Contract:** 167534

**Project:** 70181230

**Date Issued:** 2018-05-09

**Issued to:** MSA - The Safety Company  
1000 Cranberry Woods Dr  
Cranberry Township, PA 16066-5296  
USA

**Attention:** Craig Gestler

*The products listed below are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US (indicating that products have been manufactured to the requirements of both Canadian and US Standards) or with adjacent indicator 'US' for US only or without either indicator for Canada only*



**Issued by:** Jared Gillespie

## PRODUCTS

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

**CLASS 4828-82** SIGNAL APPLIANCES-Toxic Gas Detection Instruments - For Hazardous Locations.  
Certified to U.S. Standards

**Class I; Division 1; Group A, B, C, D T4;**  
**Class II; Division 1; Group E, F and G; Class III**

Model Altair 2X, Portable Toxic Gas Detector, Ambient -40 °C to +60 °C, Intrinsically safe when powered by Saft, LS17330 or EEMB, ER17335 3.6 V Lithium battery.

Condition of Acceptability

- i. The Altair 2X shall only be fitted with either a Saft, LS17330 or an EEMB, ER17335 3.6 V Lithium battery.
- ii. The Lithium battery shall only be changed outside the hazardous area.



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- iii. No precautions against electrostatic discharge are necessary for portable equipment that has an enclosure made of plastic, metal or a combination of the two, except where a significant static generating mechanism has been identified. Activities such as placing the item in a pocket or on a belt, operating a keypad or cleaning with a damp cloth, do not present a significant electrostatic risk. However, where a static-generating mechanism is identified, such as repeated brushing against clothing, then suitable precautions shall be taken, e.g. the use of anti-static footwear.

### **APPLICABLE REQUIREMENTS**

CAN/CSA C22.2 No. 0-10	General Requirements - Canadian Electrical Code, Part II
CSA C22.2 No. 142-M1987	Process Control Equipment
UL 916 (1998)	Energy Management Equipment
CSA C22.2 No. 157-92	Intrinsically safe and non-incendive equipment or use in hazardous locations
UL 913 (Seventh Edition)	Intrinsically Safe Apparatus and Associated Apparatus for Use in Class I, II, and III, Division 1, Hazardous (Classified) Locations

### **MARKINGS**

The manufacturer is required to apply the following markings:

- Products shall be marked with the markings specified by the particular product standard.
- Products certified for Canada shall have all Caution and Warning markings in both English and French.

Additional bilingual markings not covered by the product standard(s) may be required by the Authorities Having Jurisdiction. It is the responsibility of the manufacturer to provide and apply these additional markings, where applicable, in accordance with the requirements of those authorities.

The products listed are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US (indicating that products have been manufactured to the requirements of both Canadian and U.S. Standards) or with adjacent indicator 'US' for US only or without either indicator for Canada only.

### **Nameplate adhesive label material approval information:**

TEXT AND INFORMATION PRINTED ONTO CSA ACCEPTED 0.003" THICK IMPRINTABLE GLOSS WHITE POLYESTER Z-ULTIMATE 3000T WHITE (Z-ULTIMATE 3000 WHITE) WITH PRESSURE SENSITIVE 3000 ADHESIVE MANUFACTURED BY ZEBRA TECHNOLOGIES INTERNATIONAL, LLC WITH THERMAL TRANSFER PRINTING RIBBON TYPE 5100 MANUFACTURED BY ZEBRA TECHNOLOGIES INTERNATIONAL, LLC WITH A PRINTER.

The label material was previously evaluated for chemical compatibility in CSA Report 2008234.

- Listee name or CSA Master Contract Number adjacent to the CSA Mark in lieu of manufacturer's name.
- Model number: As specified in the PRODUCTS section, above.



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- Ambient temperature rating: As specified in the PRODUCTS section, above.
- Manufacturing date in MMY format, or serial number, traceable to month of manufacture.
- The CSA Mark with “C” and “US” indicators, as shown on the Certificate of Compliance.
- Hazardous Location designation, as specified in the PRODUCTS section, above.
- Temperature code: As specified in the PRODUCTS section, above.
- “Exia”
- Warnings and Cautions (shall appear in both English and French)
  - The triangle/exclamation mark symbol with “reference manual for warning and cautions”.
  - “Intrinsically Safe”, adjacent to the CSA Mark.

All units are provided with an instruction manual which contains the following Warnings and Cautions:

- The triangle/exclamation mark symbol followed by text “WARNING: ADVERTISSEMENT” immediately followed by, “Change battery only in non-hazardous locations. Use only compliant batteries EEMB ER17335 or Saft LS17330.”

“Substitution of components may impair Intrinsic Safety”



## *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**

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<b>Project</b>	<b>Date</b>	<b>Description</b>
70181230	2018-05-09	Evaluation to update report 2675834 with updated drawings reflecting changes to PCB artwork.
70128595	2017-07-27	Update to report 2675834 to record changes made to the product manual.
2675834	2014-02-18	Original Certification.