



Certificate of Compliance

Certificate: 70030493

Master Contract: 167534

Project: 70030493

Date Issued: 2015-09-16

Issued to: Mine Safety Appliances Company North American Division
1000 Cranberry Woods Dr
Cranberry Township, Pennsylvania 16066-5296
USA

Attention: Carolyn Lehecka

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: Dennis Jeffrey
Dennis Jeffrey

PRODUCTS

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

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

Class I, Division 1, Groups A, B, C and D; T4

Combustible gas detector, model Altair5X PID, portable, battery operated, intrinsically safe when used with rechargeable Lithium-Ion battery pack p/n 10114839. Ambient temperature range $-20^{\circ}\text{C} \leq T_a \leq 50^{\circ}\text{C}$.

APPLICABLE REQUIREMENTS

CSA C22.2 No. 0-10	General Requirements – Canadian Electrical Code, Part II – Tenth Edition
CSA C22.2 No. 152-M1984	Combustible Gas Detection Instruments – Second Edition
CSA C22.2 No. 157-92	Intrinsically Safe and Non-Incendive Equipment for Use in Hazardous Locations – Third Edition
UL 913 5 th Ed.	Intrinsically Safe Apparatus and Associated Apparatus for Use in Class I, II and III, Division 1, Hazardous Locations
ANSI/ISA-12.13.01-2000	Performance Requirements for Combustible Gas Detectors



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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.

The following markings appear on the certified devices. Main marking nameplate is CSA Accepted adhesive nameplate material by Zebra Technologies 3 mil thick imprintable gloss white polyester Z – Ultimate 3000T with pressure sensitive 3000 adhesive using 5100 ribbon on a Zebra printer.

- Manufacturer's name: "MSA", or CSA Master Contract Number "167534", adjacent to the CSA Mark in lieu of manufacturer's name.
- Model number: As specified in the PRODUCTS section, above.
- Ambient temperature rating: As specified in the PRODUCTS section, above.
- Manufacturing date in MMY format, or serial number, traceable to year and month of manufacture.
- The CSA Mark with or without "C" and "US" indicators, as shown on the Certificate of Conformity.
- Hazardous Location designation: As specified in the PRODUCTS section, above (may be abbreviated).
- Temperature code: As specified in the PRODUCTS section, above.
- The following words:
 - "Exia".
 - "INTRINSICALLY SAFE" and "SÉCURITÉ INTRINSÈQUE";
 - "C22.2 No. 152" and "ISA 12.13.01"
 - "WARNING: SUBSTITUTION OF COMPONENTS MAY IMPAIR INTRINSIC SAFETY" and "AVERTISSEMENT: LA SUBSTITUTION DE COMPOSANTS PEUT COMPROMETTRE LA SÉCURITÉ INTRINSÈQUE"
 - "CAUTION: READ AND UNDERSTAND MANUAL BEFORE OPERATION" and "ATTENTION: LIRE ET COMPRENDRE MANUEL AVANT FONCTIONNEMENT"
 - "WARNING: USE ONLY BATTERY PACK P/N 10114839" and "ATTENTION: UTILISEZ UNIQUEMENT BATTERIE P/N 10114839"
 - "WARNING: BATTERIES MUST ONLY BE CHANGED OR CHARGED IN AN AREA KNOWN TO BE NONHAZARDOUS." and "AVERTISSEMENT: NE CHANGER OU CHARGER LES BATTERIES QUE DANS DES EMPLACEMENTS DESIGNES NON DANGEREUX."



Supplement to Certificate of Compliance

Certificate: 70030493

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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
70030493	2015-09-16	Original certification of the Combustible gas detector, model Altair5X PID.