



# Certificate of Compliance

**Certificate:** 70030493

**Master Contract:** 167534

**Project:** 80156180

**Date Issued:** 2023-04-06

**Issued To:** MSA - The Safety Company  
1000 Cranberry Woods Dr  
Cranberry Township, Pennsylvania, 16066-5296  
United States

**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 or with adjacent indicator 'US' for US only or without either indicator for Canada only.*



**Issued by:** Peter Do  
Peter Do

## **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**  
**Ex ia IIC T4 Ga (without Ex XCell Sensor)**  
**Ex da ia IIC T4 Ga (with Ex XCell Sensor)**  
**Class I, Zone 0 AEx ia IIC T4 Ga (without Ex XCell Sensor)**  
**Class I, Zone 0 AEx da ia IIC T4 Ga (with Ex XCell Sensor)**

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  $-20^{\circ}\text{C} \leq T_a \leq 50^{\circ}\text{C}$ .



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### **Conditions of Acceptability:**

1. The equipment shall be charged by manufacturer's chargers only in an ambient temperature from 0°C to +45°C and opened when the hazardous area is not present.
2. When using the equipment in hazardous area, the equipment should be worn or carried on the body. It shall not be stored in a hazardous area. This prevents the possibility of the equipment building up an electrostatic charge. The measured capacitance of accessible metal parts: D-Ring 24pF and Charge contact pins 17pF.
3. The antenna used for activation of the internal RFID tag with the RF radiation power shall not exceed 6W for Group I and 2W for Group IIC.

### **APPLICABLE REQUIREMENTS**

CSA C22.2 No. 152-M1984	Combustible Gas Detection Instruments – Second Edition
CAN/CSA C22.2 No. 61010-1-12 + Amd 1 – 18	Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use – Part 1: General Requirements
CAN/CSA C22.2 No. 60079-0:19	Explosive atmospheres – Part 0: Equipment – General requirements
CSA C22.2 No. 60079-1:16	Explosive atmospheres — Part 1: Equipment protection by flameproof enclosures “d”
CAN/CSA C22.2 No. 60079-11:14 (R2018)	Explosive atmospheres – Part 11: Equipment protection by intrinsic safety “i”
ANSI/UL 61010-1-2018 <i>Third Edition</i>	Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use — Part 1: General Requirements
ANSI/UL 60079-0-2020 <i>Seventh Edition</i>	Explosive atmospheres – Part 0: Equipment – General requirements
ANSI/UL 60079-1 – 2015 - 7th Ed.	Explosive atmospheres — Part 1: Equipment protection by flameproof enclosures “d”
ANSI/UL 60079-11-2018 <i>Sixth Edition</i>	Explosive Atmospheres – Part 11: Equipment Protection by Intrinsic Safety “i”
UL 913 8 <sup>th</sup> 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.

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

The following markings are provided on a UL Recognized to Canadian requirements (PGJI8) and UL Recognized (PGJI2) adhesive nameplate, used with the printer and ribbon specified in the Listing, and is suitable for indoor and outdoor use on clear polycarbonate at a maximum service temperature of 50°C or higher. Nameplate is affixed to the unit exterior.

- 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.
- The designation "CSA 15CA70030493X"
- 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."



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**Notes:**

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Products certified under Class C482801, C482881 have been certified under CSA's ISO/IEC 17065 accreditation with the Standards Council of Canada (SCC). [www.scc.ca](http://www.scc.ca)





## *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>
80156180	2023-04-06	Update markings section to include verbiage on accepted label materials in Report 70030493 (MSA Altair 5X PID).
80106884	2022-06-22	Evaluation for revision to CSA report 70030493 to perform the following: <ul style="list-style-type: none"><li>• Add monochrome display as an option,</li><li>• Update report to the requirements of CSA/UL 60079-0 and CSA/UL 60079-11</li><li>• Add alternate Bluetooth module layout for IC replacement</li></ul>
80057458	2020-10-27	Evaluation to update CSA Report 70030493 address drawing changes and to include firmware update.
70221629	2019-05-03	Evaluation to update Report 70030493 (last update 70123411) to update firmware to Version 5.09.
70121991	2017-06-29	Update of CSA report 70030493 to revise descriptive documents and review and verify previous updates for third party Mocon-Baseline PID sensors, remove unnecessary drawings, update related drawings.
70123411	2017-03-28	Update to report 70030493 to make the foam and coating optional in the construction of the LCD display assembly.
70030493	2015-09-16	Original certification of the Combustible gas detector, model Altair5X PID.