



# Certificate of Compliance

**Certificate:** 80182193

**Master Contract:** 167534

**Project:** 80182193

**Date Issued:** 2024-05-10

**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*

**Issued by:** *Konstantin Rybalko*  
Konstantin Rybalko



## PRODUCTS

**4828-01** -- SIGNAL APPLIANCES - Combustible Gas Detection Instruments-For Hazardous Location

**Class I, Division 1, Group A, B, C & D T4**  
**Ex da ia IIC T4 Ga**

Model Altair io4, portable intrinsically safe battery operated toxic, oxygen and combustible gas detector for general purpose flammable application. The Altair io4 is designed to detect up to four types of gases: 0-100% LFL combustible, oxygen, and a variety of toxic gases. The device provides visual and audible alarms when predetermined levels are reached. The apparatus can communicate wirelessly.

Designed to operate with Lithium-ion battery of the following types:  
UF10345P manufactured by Panasonic;  
ICP103450CA or ICP 103450DA manufactured by Molicel;

Temperature range:  $-20^{\circ}\text{C} \leq T_a \leq 55^{\circ}\text{C}$   
IP68

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Conditions of acceptability:

1. The equipment shall not be charged in Hazardous locations.
2. The software version is 1.3.25.
3. IP ratings do not imply that the equipment will detect gas during and after exposure to those conditions.

**APPLICABLE REQUIREMENTS**

- |  |  |
|--|--|
| CAN/CSA-C22.2. No 61010-1-12, Amd. 1, 2018 | - Safety requirements for electrical equipment for measurement, control, and laboratory use — Part 1: General requirements |
| CSA C22.2 No. 60079-0 Ed. 7. 2019          | - Explosive atmospheres — Part 0: Equipment — General requirements   |
| CAN/CSA-C22.2 No. 60079-1:16 (R2021)       | - Explosive atmospheres — Part 1: Equipment protection by flameproof enclosures “d”  |
| CAN/CSA-C22.2 No. 60079-11 Ed. 6 2014      | - Explosive atmospheres — Part 11: Equipment protection by intrinsic safety “i”  |
| CAN/CSA-C22.2 No. 60079-29-1:17            | - Explosive atmospheres — Part 29-1: Gas detectors — Performance requirements of detectors for flammable gases             |

Notes:

Products certified under Class(es) C482801 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>
80182193	2024-05-10	Original Canadian Certification of a Multi-Gas Detector, Model Altair io4 for Class I Division 1 Groups A, B, C & D