

Certificate of Compliance

Certificate:	70110604	Master Contract:	167534
Project:	80022729	Date Issued:	2019-11-21
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: Laura Li Laura Li



PRODUCTS

CLASS - C482801 - SIGNAL APPLIANCES - Combustible Gas Detection Instruments-For Hazardous Locations

CLASS - C482881 - SIGNAL APPLIANCES-Combustible Gas Detection Instruments For Hazardous Location-Certified to U.S. Standards

Class I, Division 1, Groups A, B, C, & D, Class II, Division 1 Groups E, F, & G, Class III; T4

Ex ia IIC T4 Ga (Zone 0) – Without XCell Ex Sensor Ex da ia IIC T4 Ga (Zone 0) – With XCell Ex Sensor

Class I, Zone 0, AEx ia IIC T4 Ga (Zone 0) – Without XCell Ex Sensor Class I, Zone 0, AEx da ia IIC T4 Ga (Zone 0) – With XCell Ex Sensor



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Combustible multi gas detector, model ALTAIR 4XR, portable, powered by a rechargeable Lithium Ion Polymer Battery Cell, Sony model US503759A8H, rated 3.8 V (nominal), 1400 mAh (nominal). MSA battery pack part number 10083913. Ambient temperature range -40°C \leq Ta \leq 60°C. For combustible gas detection performance the ambient temperature range is -20°C \leq Ta \leq 54°C. IP68 (2 m, 1 hour)

Notes:

The ALTAIR 4XR incorporates previously certified sensors. It is therefore the responsibility of the manufacturer to continually monitor the status of the certification associated with this device. The manufacturer shall inform CSA of any modifications to the device that may impinge upon the explosion safety design of the ALTAIR 4XR.

CCA C22.2 No. 0.10	Conservation and the Plantice I Colla Deat H. T. (1 P.1)		
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 or use in hazardous		
(reaffirmed 2016)	locations - Third Edition		
CAN/CSA-C22.2 No. 60079-0:15	Explosive atmospheres - Part 0: Equipment - General requirements - Third Edition		
CAN/CSA-C22.2 No. 60079-1:16	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d" - Third Edition		
CAN/CSA-C22.2 No. 60079-11:14	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i" - Second Edition		
CAN/CSA-C22.2 No. 60529:16	Degrees of protection provided by enclosures (IP Code) - Second Edition		
CAN/CSA-C22.2 No. 61010-1-12	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements - Third Edition		
ANSI/UL/ISA 60079-0	Explosive atmospheres - Part 0: Equipment - General Requirements - Sixth Edition; 12.00.01		
ANSI/UL/ISA 60079-1	Explosive Atmospheres - Part 1: Equipment Protection by Flameproof Enclosures "d" - Sixth Edition; 12.22.01		
ANSI/UL/ISA 60079-11	Explosive Atmospheres - Part 11: Equipment protection by intrinsic safety "i" - Edition 6.2; 12.02.01		
ANSI/ISA 60079-29-1	Explosive Atmospheres - Part 29-1: Gas detectors - Performance requirements of detectors for flammable gases – First Edition 12.13.01		
UL 913	UL Standard for Safety Intrinsically Safe Apparatus and Associated Apparatus for Use in Class I, II, and III, Division 1, Hazardous (Classified) Locations - Eighth Edition		
UL 61010-1	UL Standard for Safety Electrical Equipment For Measurement, Control, and Laboratory Use; Part 1: General Requirements - Third Edition		

APPLICABLE REQUIREMENTS

MARKINGS

The manufacturer is required to apply the following markings:



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- 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 nameplate is a CSA accepted adhesive backed label manufactured by Zebra Technologies, 3 mil thick, imprintable gloss white polyester Z – Ultimate 3000T with a pressure sensitive 3000 adhesive using 5100 ribbon on a Zebra printer.

- Manufacturer's name: "MSA THE SAFETY COMPANY", trademark or CSA master contract number "167534" adjacent to the CSA mark.
- The characters "CSA 17.70110604", designating the certification body, followed by the last two digits of the year of report issue, followed by a period, followed by the original report number.
- Hazardous Location designation and/or Method of Protection (Ex) markings: As specified in the PRODUCTS section above.
- Temperature code: As specified in the PRODUCTS section above.
- Model number: As specified in the PRODUCTS section above.
- Battery pack details: As specified in the PRODUCTS section above. Due to product size marking may be provided in the manual.
- Ambient temperature rating: As specified in the PRODUCTS section above.
- Enclosure rating: IP68 (2 m, 1 hour).
- Serial number X... & Date code, which is comprised of a letter for month, two digit year, E0=no extended warranty and E1=extended warranty
- The following or equivalent wording:
 - o "Exia".
 - "INTRINSICALLY SAFE" and "SÉCURITÉ INTRINSÈQUE";
 - o "C22.2 No. 152" and "ANSI/ISA 60079-29-1"
 - "WARNING: UNDERSTAND MANUAL BEFORE OPERATING" and "AVERTISSEMENT: LIRE ATTENTIVEMENT LES INSTRUCTIONS AVANT DE METTRE EN MARCHE."
- The following or equivalent warning markings: (Due to product size marking may be provided in the manual):
 - "WARNING: SUBSTITUTION OF COMPONENTS MAY IMPAIR INTRINSIC SAFETY" and "AVERTISSEMENT: LA SUBSTITUTION DE COMPOSANTS PEUT COMPROMETTRE LA SÉCURITÉ INTRINSÈQUE"
 - "WARNING: USE ONLY BATTERY PACK P/N 10083913" and "ATTENTION: UTILISEZ UNIQUEMENT BATTERIE P/N 10083913"



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- "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."
- "WARNING: UNDERSTAND MANUAL BEFORE OPERATING" and "AVERTISSEMENT: LIRE ATTENTIVEMENT LES INSTRUCTIONS AVANT DE METTRE EN MARCHE."
- "CAUTION OFF-SCALE READINGS MAY INDICATE EXPLOSIVE CONCENTRATION."



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

Project	Date	Description
80022729	2019-11-21	Evaluation for update to report 70110604 to include revised drawing.
000080002959	2019-07-22	Evaluation for update of report 70110604 to include French language on the display and revise related drawings.
000070110604	2017-03-03	Original certification of the ALTAIR 4XR.