



Certificate of Compliance

Certificate: 1719689

Master Contract: 167534

Project: 80156176

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 02 - SIGNAL APPLIANCES - Toxic Gas Detection Instruments - For Hazardous Locations

Ex ia IIC T4:

Class I, Div.1, Groups A, B, C and D; Class II, Div.1, Group G:

Toxic gas detector, Model Altair and Altair O₂, portable, battery operated, intrinsically safe when used with one 3.6 V Lithium battery cell, Part No. XL-055F, manufactured by XENO, Part No. LST17330, manufactured by SAFT or Part No. ER17335, manufactured by EEMB. Tamb. -40 Deg. C to +50 Deg. C. Temperature Code T4.

Toxic gas detector, Model Altair Pro, Altair Pro O₂ and Altair Pro-R O₂, portable, battery operated, intrinsically safe when used with one 3.2 V Photo Lithium battery cell, Manufactured by Varta CR2 6206 or Varta (power one) CR2, CR15H270, 6206 or Panasonic CR-2PA/1B or Energizer CR2 EL1CR2BP. Tamb. -40 Deg. C to +50 Deg. C. Temperature Code T4.



Certificate: 1719689
Project: 80156176

Master Contract: 167534
Date Issued: 2023-04-06

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

Class 1, Zone 0, AEx ia IIC T4:
Class I, Div.1, Groups A, B, C and D; Class II, Div.1, Group G:

Toxic gas detector, Model Altair and Altair O₂, portable, battery operated, intrinsically safe when used with one 3.6 V Lithium battery cell, Part No. XL-055F, manufactured by XENO, Part No. LST17330, manufactured by SAFT or Part No. ER17335, manufactured by EEMB. Tamb. -40 Deg. C to +50 Deg. C. Temperature Code T4.

Toxic gas detector, Model Altair Pro, Altair Pro O₂ and Altair Pro-R O₂, portable, battery operated, intrinsically safe when used with one 3.2 V Photo Lithium battery cell, Manufactured by Varta CR2 6206 or Varta (power one) CR2, CR15H270, 6206 or Panasonic CR-2PA/1B or Energizer CR2 EL1CR2BP. Tamb. -40 Deg. C to +50 Deg C. Temperature Code T4.

APPLICABLE REQUIREMENTS

CAN/CSA-C22.2 No. 0-M91	- General Requirements – Canadian Electrical Code, Part II
CAN/CSA-E60079-0:02	- Electrical apparatus for explosives gas atmospheres Part 0: General Requirements.
CAN/CSA-E60079-11:02	- Electrical apparatus for explosives gas atmospheres Part 11: Intrinsic Safety “i”
UL 60079-0:02	- Electrical apparatus for explosives gas atmospheres Part 0: General Requirements.
UL 60079-11:02	- Electrical apparatus for explosives gas atmospheres Part 11: Intrinsic Safety “i”
CAN/CSA-C22.2 No.157-92	-Intrinsically Safe and Non-Incendive Equipment for Use in Hazardous Locations
C22.2 No 25 – 1966	-Enclosures for Use in Class II Groups E, F and G Hazardous Locations
UL 913, July 31, 2006	-Intrinsically Safe Apparatus and Associated Apparatus For Use in Class I, II and III, Division 1, Hazardous (Classified) Locations.
UL 1203, Sept. 15, 2006	- Explosion-Proof and Dust-Ignition-Proof Electrical Equipment for Use in Hazardous (Classified) Locations-Fourth Edition



Certificate: 1719689
Project: 80156176

Master Contract: 167534
Date Issued: 2023-04-06

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.

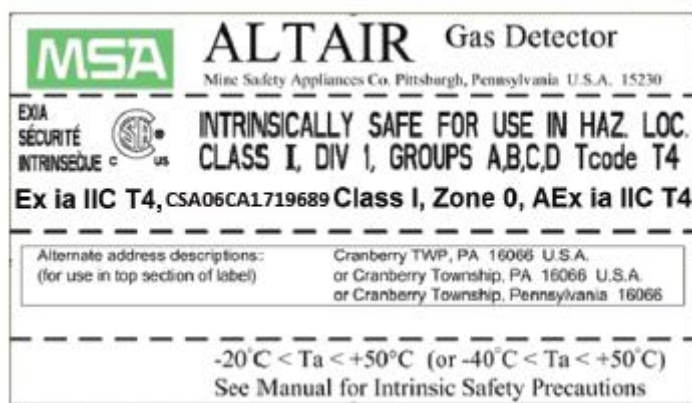
Additional bilingual markings not covered by the product standard(s) may be required by the Authorities Having Jurisdiction. It is the responsibility of the manufacturer to provide and apply these additional markings, where applicable, in accordance with the requirements of those authorities.

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.

Altair & Altair O2 label





Certificate: 1719689
Project: 80156176

Master Contract: 167534
Date Issued: 2023-04-06

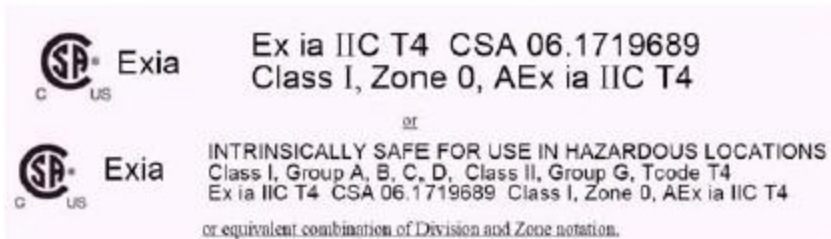
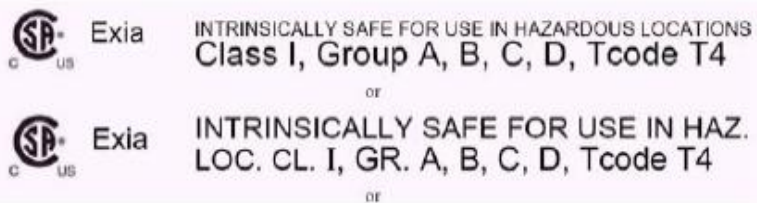
Altair Pro, Altair Pro O2, & Altair Pro-R-O2 label:



"READ PRECAUTIONS IN OPERATING MANUAL" may replace "Read Battery & Intrinsic Safety Precautions In Operating Manual"

The Canada and USA section will contain text equivalent to the text shown above, or equivalent to the text options that follow:

(Options for Combination Division + Zone, Division, and Zone text.)





Certificate: 1719689
Project: 80156176

Master Contract: 167534
Date Issued: 2023-04-06

Notes:

Products certified under Class C482802, C482882 have been certified under CSA's ISO/IEC 17065 accreditation with the Standards Council of Canada (SCC). www.scc.ca





Supplement to Certificate of Compliance

Certificate: 1719689

Master Contract: 167534

*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
80156176	2023-04-06	Update markings section to include verbiage on accepted label materials in Report 1719689
70160082	2017-11-09	Update report 1719689 to include "AEx ia" marking on the label.
70118832	2017-02-16	Update to report 1719689 to cover changes In Altair and Altair O2 models based on minor PCB and drawing changes.
70008937	2014-11-06	Update to report 2416827 to cover analysis of the new board layout, added capacitance and documentation.
2538173	2012-06-27	Update to report 1719689 to cover revised construction of models "Altair" per ACR490459 and "Altair Pro" per ACR490462.
2416827	2011-04-21	Update of report to include revised drawings per ACR 490277.
2118696	2009-01-06	Update to change overmould material RTP 2099 EX 118617 B (blk/blk) to RTP 2099 EX 118617 B in any color per ACR# 483278 and 483279. Revised construction per ACR# 483157.
2054905	2008-07-03	Update Report to include revised temperture range -40C to +50C per ACR 483227.
2040129	2008-05-26	Update to include 1 alternate thermoplastic elastomer case overmold material per ACR 483212, H2S sensor p/n change per ACR 483099a and descriptive clarification changes.
1871840	2007-02-27	Addition of new model Altair Pro-R O2 and Group G per ACR#483053.
1792224	2006-06-26	Addition of Model Altair Pro and Altair Pro O2
1719689	2006-01-05	Original Certification