



# Certificate of Compliance

**Certificate:** 70208660

**Master Contract:** 150143

**Project:** 80190230

**Date Issued:** 2024-03-28

**Issued To:** Altronic, LLC  
712 Trumbull Ave  
Girard, Ohio, 44420  
United States

**Attention:** Sheila Horn

*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:** Jerry Thai  
Jerry Thai



## **PRODUCTS**

CLASS - C225802 - PROCESS CONTROL EQUIPMENT For Hazardous Locations

CLASS - C225882 - PROCESS CONTROL EQUIPMENT For Hazardous Locations - Certified to US Standards

### **Class I, Division 2, Groups C, D; T4**

Nonincendive DE-4000 HMI Display Module part number 691766: Rated 10 to 32Vdc, 245mA at 24 Vdc. Ambient temperature -30°C to 80°C.

Nonincendive DE-4000 HMI Display Module part number 691767-XX: Rated 10 to 32Vdc, 25 W. Ambient temperature -30°C to 80°C.

Nonincendive DE-4000 Controller Module part number 691759: Rated 10 to 32Vdc, 210mA at 24 Vdc. Ambient temperature -40°C to 85°C.



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### **Class I, Division 2, Groups C, D; T3C**

Nonincendive DE-4000 Terminal Module part number 691760: Rated 10 to 32Vdc, 230mA at 24 Vdc. Ambient temperature -40°C to 85°C, Temperature Code T3C.

#### Notes:

1. The above models are permanently connected, Equipment Class II, Pollution Degree 2, supplied from secondary non-hazardous live source.
2. To be supplied by a CSA/UL approved Class 2 power source
3. Mode of Operation: Continuous

#### **Condition of Certification**

1. When the part numbers; 691759, 691760, and 691766 are installed in hazardous area, it shall be installed in a suitable enclosure which provides an ingress protection minimum level of IP54 (splash protected).
2. The USB connector ports in DE-4000 HMI Display Module part number 691766, DE-4000 Controller Module part number 691759, and DE-4000 Terminal Module part number 691760 are not for use in Hazardous Areas.
3. The HMI contains the following communication ports: RS485, CAN, USB Host, and USB OTG. These ports are not currently used on the DE-4000 system.
4. Only USB and HDMI ports are used with part number 69167-XX.

When DE-4000 HMI Display Module part number 691767-XX is used, ACM-4000 is required and the following conditions are applied:

5. The ACM-4000 is OPEN Type module and shall be installed within a suitable end-use enclosure that requires a tool to access, and is appropriately certified, providing a suitable minimum ingress protection level for the intended installation site.
6. The ACM-4000 may only be powered by a power supply unit with a limited energy electric circuit in accordance with CAN/CSA C22.2 No. 61010-1-12 and ANSI/UL 61010-1, or Class 2 as defined in the Canadian Electrical Code C22.1, Section 16-200 and/or National Electrical Code (NFPA 70), article 725.121.
7. ACM-4000 part number 691810-x installed in hazardous area shall be installed on a fixed rail in a suitable end-use enclosure
8. USB C (USB 1, USB 2, USB OTG) and PCIE connectors are to be used solely for operational maintenance. Not to be used in normal operating conditions in hazardous locations.
9. USB A cables suitable for use with ACM-4000 in normal operation shall meet the construction requirements in accordance to Figure 6-9 - USB Series "A" Plug Interface Drawing of IEC 62680-2-1 Edition 1 2015-09.
10. CM4 antenna and J3 connector will not be used in normal operation solely for operational maintenance
11. The above model is permanently connected, Equipment Class III, Pollution Degree 2, Supplied from secondary non-hazardous live source.
12. Mode of operation: Continuous



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### APPLICABLE REQUIREMENTS

CSA C22.2 NO. 61010-1-12	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements - Third Edition
CAN/CSA C22.2 NO. 213-17	Nonincendive Electrical Equipment for Use in Class I and II, Division 2 and Class III, Divisions 1 and 2 Hazardous (Classified) Locations
ANSI/UL 61010-1 3 <sup>rd</sup> Edition	Standard for Safety Electrical Equipment for Measurement, Control, and Laboratory Use; Part 1: General Requirements - Third Edition
ANSI/ISA-12.12.01-2017	Nonincendive Electrical Equipment for Use in Class I and II, Division 2 and Class III, Divisions 1 and 2 Hazardous (Classified) Locations

### 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 .005 inch Lexan plastic with 3M type 467 or 468 adhesive backing manufactured by McLoone Metal Graphics Co., Or on .060 subsurface printed lexan and mechanically affixed. Or another CSA certified label manufacturer

- Manufacturers name: "Altronic", or CSA Master Contract Number "150143", adjacent to the CSA Mark in lieu of manufacturers name.
- Model number, as specified in the PRODUCTS section, above.
- Electrical ratings, 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 month of manufacture.
- The CSA Mark with or without the "c" and/or "us" indicators, as shown on the Certificate of Conformity.
- Hazardous Location designation, as specified in the PRODUCTS section, above.
- Temperature code, as specified in the PRODUCTS section, above.
- "WARNING - Explosion Hazard - Do not connect or disconnect this equipment unless power has been removed or the area is known to be nonhazardous."

An installation manual or data sheet shall be supplied with each unit, containing the following minimum marking information:

- Manufacturers name or CSA Master Contract Number "150143"



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- Electrical ratings, as specified in the PRODUCTS section, above.
  - Specification for ambient temperature rating, as specified in the PRODUCTS section, above.
  - Specification for appropriate wiring to the connector, including specification for wire gauge.
  - The following words, or suitable equivalent:
  - This equipment is suitable for installation in Class I, Division 2, Group C, D hazardous locations or nonhazardous locations only.
  - **WARNING - Explosion Hazard.** Do not connect or disconnect this equipment unless power has been removed or the area is known to be nonhazardous.
  - **WARNING - Explosion Hazard.** Substitution of components may impair suitability for Class I, Division 2.
  - *Note - Jurisdictions in Canada may require these markings to also be provided in French language. It is the responsibility of the manufacturer to provide bilingual marking, where applicable, in accordance with the requirements of the Provincial Regulatory Authorities. It is the responsibility of the manufacturer to determine this requirement and have bilingual wording added to the "Markings".*

Notes:

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Products certified under Class C225802 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>
80190230	2024-03-28	Update to CSA Report 70208660 for additional documentation from Project 80154042 including: <ul style="list-style-type: none"><li>- Adding Condition for Safe Use, “The USB Connectors are not for use in Hazardous Area”</li><li>- Adding Condition for Safe Use, “The HMI also contains the following communication ports: RS485, CAN, USB Host, and USB OTG. These ports are not currently used on the DE-4000 system.”</li><li>- Addition to Critical Components list: ACM-4000 module (once certified), Accepted display unit, HDMI cable with latches</li><li>- Removal of Tru-Vu Monitor component interchangeability from Description of Report 70208660</li></ul>
80164878	2023-08-10	Evaluation to update CSA Report 70208660 for addition of new display module model SRMTPWP-15.6R36 manufactured by Tru-Vu Monitors Inc.
70208660	2019-02-04	Evaluation for original assessment to include individual product listings of display module, terminal module, control module, for the DE-4000 safety shutdown and control system of cCSAus certification Class I, Division 2, Groups CD