



# Certificate of Compliance

**Certificate:** 1874315

**Master Contract:** 150143

**Project:** 2701588

**Date Issued:** March 12, 2014

**Issued to:** Altronic Inc.

712 Trumbull Ave  
Girard, OH 44420  
USA

Attention: Glenn Terry

*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.*



*Richard Dibler Jr*

**Issued by:** Richard Dibler Jr

## **PRODUCTS**

**CLASS 4818 84** - SIGNAL APPLIANCES - Systems - For Hazardous Locations - Certified to US Standards

**CLASS 4818 04** - SIGNAL APPLIANCES - Systems - For Hazardous Locations

### **Class I, Division 2, Groups C, D:**

- Digital Annunciation System - Model DE-30aa. Rated 12 to 32Vdc, 500mA. Ambient temperature -40°C to 80°C, Temperature Code T4.

Where:

aa = is two numerics representing assembly build and software.

Option: Model DE-3000 CSI. . Rated 12 to 32Vdc, 500mA. Ambient temperature -40°C to 80°C, Temperature Code T4.

System Consists of the following CSA Certified component assemblies:

- I/O Terminal Modules - p/n 691171-x and/or 691172-x and/or 691175-x.

May also use non Certified p/n 691217-x



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- Display module - p/n 691170- x and/or 691174-x.

With, or without:

- Power Supply Module - p/n 691122-x.

With, or without:

- CD Ignition or Fuel Valve Output Module - p/n 691124-x.

With, or without:

- Industry Standard Module - p/n 691125-x or 691056- x or 691066-x or 691065-x or any equivalent Certified Output module.

With, or without:

- Pressure Transducer - p/n 691204-x or 691201-x or any equivalent Certified Pressure Transducer.

With, or without:

- Temperature Transducer - p/n 691212-x or 691213- x or 691202- x or 691203- x or any equivalent Certified Temperature transducer.

- GTI Digital Annunciation System – Models GPN2010V, GPN2212V, GPN2213V, GPN2214V, GPN2011V, GPN2012V, GPN2015V , and GPN2020V. Part numbers 691173-x, or 691176-x, or 691177- x, 691178-x, 691216-x, 691197-x, 691219-x and 691729-x respectively. Rated 10 to 32Vdc, 1A. Where x is any alphanumeric character indicating the software/firmware version.

- System may be supplied with one or more of the following harnesses assemblies: Part number 693118-x, 693119- x, 693120-x, 693121-x, 693122-x, 693123-x, 693124-x, 693125-x, 693126-x, 693127-x, 693128-x, 693132-x and/or 693208-x. (Where x represents the harness length, in feet)

- System may be supplied with optional vibration transducers: Part number 691205-x or any equivalent Certified Vibration, Pressure, or Temperature Transducers. (Where x represents the harness length, in feet)

Notes:

1) These systems are OPEN type equipment that must be used within a suitable end-use system enclosure, the interior of which is accessible only through the use of a tool. The suitability of the enclosure is subject to investigation by the local Authority Having Jurisdiction at the time of installation.

2) Wiring to or from this equipment, which enters or leaves the system enclosure, must utilize wiring methods suitable for Class I, Division 2 Hazardous Locations, as appropriate for the installation.



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### **APPLICABLE REQUIREMENTS**

CAN/CSA Standard C22.2 No. 0-M91 ( <i>Reaffirmed 2006</i> )	General Requirements - Canadian Electrical Code, Part II
CSA Standard C22.2 No. 142-M1987 ( <i>Reaffirmed 2004</i> )	Process Control Equipment
CSA Standard C22.2 No. 213-M1987 ( <i>Reaffirmed 2008</i> )	Non-incendive Electrical Equipment for Use in Class I, Division 2 Hazardous Locations
ANSI/UL Standard 508 ( <i>Seventeenth Edition, Dated January 28, 1999. With revisions through and including September 19, 2008.</i> )	Industrial Control Equipment
ANSI/ISA-12.12.01-2007	Nonincendive Electrical Equipment for Use in Class I and II, Division 2 and Class III, Division 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 following markings are silkscreened directly on the PC board or housing, or provided on a CSA Certified (Class 7921-01) and UL Recognized (PGDQ2) adhesive nameplate, which is suitable for indoor use PC board material, at a maximum service temperature of 90°C or higher.

- Manufacturer's name: "Altronic", or CSA Master Contract Number "150143", adjacent to the CSA Mark in lieu of manufacturer's 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 "C" and "US" indicators, as shown on the Certificate of Conformity.
- Hazardous Location designation, as specified in the PRODUCTS section, above.



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- Temperature code: As specified in the PRODUCTS section, above (optional on products rated T6 or T5).
  - The following words:
    - “WARNING – EXPLOSION HAZARD - Substitution of components may impair suitability for Class I, Division 2.”
    - “WARNING – EXPLOSION HAZARD – Do not connect while circuit is live unless 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 and address
- Electrical ratings.
- Specification for ambient temperature rating: " $0^{\circ}\text{C} \leq T_a \leq 80^{\circ}\text{C}$ ", or " $0^{\circ}\text{C}$  to  $80^{\circ}\text{C}$ ".
- Specification for appropriate wiring to the terminals of the system components, including definition of pin functions, and specification for wire gauge.
- Mounting and installation instructions, including dimensions, and the following words, or equivalent:
  - This is OPEN type equipment that must be used within a suitable end-use system enclosure, the interior of which is accessible only through the use of a tool. The suitability of the enclosure is subject to investigation by the local Authority Having Jurisdiction at the time of installation.
  - Wiring to or from this equipment, which enters or leaves the system enclosure, must utilize wiring methods suitable for Class I, Division 2 Hazardous Locations, as appropriate for the installation.
- The following words, or suitable equivalent:
  - This equipment is suitable for installation in Class I, Division 2, Group C and 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".*