



# Certificate of Compliance

**Certificate:** 2613224

**Master Contract:** 217989

**Project:** 70007274

**Date Issued:** August 22, 2014

**Issued to:** Pyromation Incorporated  
5211 Industrial Rd  
Fort Wayne, IN 46825  
USA  
Attention: Jason Schrader

*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.*



*Joshua Burdeshaw*

**Issued by:** Joshua Burdeshaw

## **PRODUCTS**

**CLASS 4418 02** - OUTLET BOXES AND FITTINGS - Boxes - For Hazardous Locations

**CLASS 4418 82** - OUTLET BOXES AND FITTINGS - Boxes - For Hazardous Locations -  
Certified to US Standards

### **Class I Division 1 Groups A, B, C and D; Class II Division 1 Groups E, F and G; Class III**

Explosion-proof enclosures, Models 93C (1/2" NPT process connection) & 93D (3/4" NPT process connection), cast aluminum with 3/4" NPT conduit entry. Ambient temperature is -40°C to +100°C (not for gas Group A) and -20°C to +100°C (for all gas Groups). Type 4 or Type 4X if anodized.

Explosion-proof enclosures, Models 94C (1/2" NPT process connection) & 94D (3/4" NPT process connection), 316 Stainless Steel with 3/4" NPT conduit entry. Ambient temperature is -40°C to +100°C. Type 4X.

**Ex d IIC Gb; Ex tb IIIC Db; IP66**

**Class I Zone 1 AEx d IIC Gb; Zone 21 AEx tb IIIC Db; IP66**

Explosion-proof enclosures, Models 93C (1/2" NPT process connection) & 93D (3/4" NPT process connection), cast aluminum with 3/4" NPT conduit entry. Ambient temperature is -20°C to +100°C. Type 4 or Type 4X if anodized.



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Explosion-proof enclosures, Models 94C (1/2" NPT process connection) & 94D (3/4" NPT process connection), 316 Stainless Steel with 3/4" NPT conduit entry. Ambient temperature is -40°C to +100°C. Type 4X.

Condition of Certification for Zones:

The content of the Ex component enclosure equipment may be placed in any arrangement provided that an area of at least 40% of each cross-sectional area remains free to permit unimpeded gas flow, and therefore, unrestricted development of an explosion.

**APPLICABLE REQUIREMENTS**

CAN/CSA-C22.2 No. 0-10 <i>August 2011</i>	General Requirements - Canadian Electrical Code, Part II
CSA C22.2 No. 25-1966 <i>(Reaffirmed 2009)</i>	Enclosures for Use in Class II Groups E, F, and G Hazardous Locations
CSA C22.2 No. 30-M1986 <i>(Reaffirmed 2012)</i>	Explosion-Proof Enclosures for Use in Class I Hazardous Locations
CAN/CSA-C22.2 No. 60079-0:11 <i>(December 2011)</i>	Explosive atmospheres – Part 0: Equipment – General requirements
CAN/CSA-C22.2 No. 60079-1:11 <i>(December 2011)</i>	Explosive atmospheres – Part 1: Equipment protection by flameproof enclosures “d”
CAN/CSA-C22.2 No. 60079-31:12 <i>(January 2012)</i>	Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure “t”
CAN/CSA-C22.2 No. 94.1-07 <i>First Edition</i>	Enclosures for Electrical Equipment, Non-Environmental Considerations
CAN/CSA C22.2 No. 94.2-07 <i>First Edition</i>	Enclosures for Electrical Equipment, Environmental Considerations
CAN/CSA-C22.2 No. 60529:05 <i>(July 2005)</i>	Degrees of protection provided by enclosures (IP Code)
FMRC 3600 – 2011	Electrical Equipment for Use in Hazardous (Classified) Locations, General Requirements
FMRC 3810 – 2005	Electrical and Electronic Test, Measuring, and Process Control Equipment



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FMRC 3615 – 2006	Explosionproof Electrical Equipment General Requirements
FMRC 3616 – 2011	Dust-Ignitionproof Electrical Equipment General Requirements
ANSI/ISA-60079-0 (12.00.01)-2009 <i>Fifth Edition</i>	Electrical Apparatus for Explosive Gas Atmospheres – Part 0: General Requirements
ANSI/ISA-60079-1 (12.22.01)-2009 <i>Sixth Edition</i>	Explosive Atmospheres – Part 1: Equipment Protection by Flameproof Enclosures “d”
ANSI/ISA-60079-31 (12.10.03)-2009 <i>First Edition</i>	Explosive Atmospheres – part 31: Equipment Dust Ignition Protection by Enclosure “t”
ANSI/IEC 60529-2004	Degrees of Protection Provided by Enclosures (IP Code)
ANSI/UL 50-2007 <i>Twelfth Edition (September 4, 2007)</i>	Enclosures for Electrical Equipment, Non-Environmental Considerations
ANSI/UL 50E-2007 <i>First Edition (September 4, 2007)</i>	Enclosures for Electrical Equipment, Environmental Considerations

The following standard(s) were used in whole or in part as a guideline:

NEMA 250-2008	Enclosures for Electrical Equipment (1000 Volts Maximum)
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**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.



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The following markings are either cast on the enclosure or screen printed on a single (drawing H059601 or S022601 or S021901) or two (drawings S022601 and S021901) 0.02" (0.5 mm) thick aluminum half-moon nameplate(s) which are attached to the cap with stainless steel round drive screws.

- Manufacturer's name: "Pyromation Inc.", or CSA Master Contract Number "217989", adjacent to the CSA Mark in lieu of manufacturer's name.
- Model number (internal cap marking): As specified in the PRODUCTS section, above.
- The CSA Mark, as shown on the Certificate of Compliance.
- The name of the certificate issuer followed by the certificate reference in the following form: last two digits of the year of the certificate followed by a "." followed by the certificate number followed by the letter "U" (Ex. CSA 13.2613224U) (Zones marking only).
- Manufacturing date (cap internal cast marking) in MMY format, serial number, batch number or date dial traceable to month and year of manufacture.
- Hazardous Location designation: As specified in the PRODUCTS section, above (may be abbreviated)
- Enclosure ratings: As specified in the PRODUCTS section, above (optional).
- Ambient temperature rating: As specified in the PRODUCTS section, above.
- The following words, or suitable equivalent:
  - "WARNING – DO NOT OPEN WHEN ENERGIZED" and "AVERTISSEMENT: NE PAS OUVRIR SOUS TENSION"
  - "CONDUIT SEAL REQUIRED WITHIN 18in "
  - "Entry: 3/4 NPT" (Zones marking only)

The following internal marking is on a 2 mil white polyester adhesive label with a 1 mil clear polyester overlam adhesive label (drawing H062701) which are CSA certified under file #97198 (Class 7924-01) and UL Recognized PGJI2.MH17205.

- The following wording:
  - "EMPTY ENCLOSURE WITH Ex COMPONENT CERTIFICATE" (Zones marking only)

A product data sheet shall be supplied with each unit, containing the following minimum marking information:

- Manufacturer's name and address
- Model number(s): As specified in the PRODUCTS section, above.
- Hazardous Location designation: As specified in the PRODUCTS section, above.
- Enclosure ratings: As specified in the PRODUCTS section, above.
- Ambient temperature rating: As specified in the PRODUCTS section, above
- Material composition of the enclosure.
- Warnings and important instructions in English and French.
- Specific conditions of use such as mounting instructions or securing internal components.
- Identification of all entries such as number allowed, type, location, thread form, etc.
- The following words, or suitable equivalent:
  - WARNING - DO NOT OPEN WHEN ENERGIZED and AVERTISSEMENT: NE PAS OUVRIR SOUS TENSION
  - CONDUIT SEAL REQUIRED WITHIN 18in
  - The content of the Ex component enclosure equipment may be placed in any arrangement provided that an area of at least 40% of each cross-sectional area remains free to permit unimpeded gas flow, and therefore, unrestricted development of an explosion.