



# Field Certification Certificate of Compliance

**Certificate:** 80009152

**Master Contract:** N/A

**Project:** 80009152

**Date Issued:** July 25, 2019

**Issued to:** Galvanic Applied Sciences  
7000 Fisher Road SE  
Calgary, AB, T2H 03W  
CANADA

**Sales Order:** N/A

**Attention:** Rex Peters

*The products listed below are eligible to bear CSA Field Certification Labels, bearing the CSA Mark shown (with adjacent indicator 'US' for US).*



**Issued by:** Larry DeWald

Note: Products certified to Canadian only requirements Class 3218-01, the label numbers start with the letters FB.  
Products certified to US only requirements Class 3218-86, the label numbers start with the letter U.

## PRODUCTS

Part A

CLASS – 3218-01: Industrial Control Equipment – Custom Built – For Hazardous Locations

~~CSA Field Certification Label issued: serial number FB 565432~~

~~Class I, Division 2, Group B, C and D, Temperature Code T3, Type Z Purge~~

~~Gas Chromatograph, Model: SULFURCHROME D2~~

~~Electrical Rating: 120 V, 50/60 Hz, 10 A Max, 1 Ph~~

Part B

CLASS – 3218-01: Industrial Control Equipment – Custom Built – For Hazardous Locations

CSA Field Certification Label issued: serial number FB 565433

Class I, Division 2, Group C and D, Temperature Code T1

Analyzer Cabinet, Model: ACCUCHROME ANALYZER CABINET



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Electrical Rating: Analyzer: 24 Vdc, 3 A Max  
Vaporizing Regulator: 120 V, 50/60 Hz, 1 Ph, 100 W  
Cabinet Heater: 110-277 V, 50/60 Hz, 1 Ph, 200 W

**Part C**

CLASS – 3218-01: Industrial Control Equipment – Custom Built – For Hazardous Locations

**CSA Field Certification Label issued: serial number FB 565434**

Class I, Division 2, Group B, C and D, Temperature Code T3  
Gas Chromatograph, Model: ACCUCHROME GAS CHROMATOGRAPH  
Electrical Rating: 24 Vdc, 3 A Max

**Part D**

CLASS – 3218-01: Industrial Control Equipment – Custom Built – For Hazardous Locations

**CSA Field Certification Label issued: serial number FB 565447**

Class I, Division 2, Group C and D, Temperature Code T1  
Sample System Cabinet, Model: HEATED SAMPLE SYSTEM CABINET  
Electrical Rating: Line 1: 12 Vdc, 1.7 W total  
Line 2: 120 V, 60 Hz, 200 W total  
Line 3: 120 V, 60 Hz, 200 W total  
Line 4: 110-277 V, 60 Hz, 300 W

**Part E**

CLASS – 3218-86: Industrial Control Equipment – Miscellaneous Apparatus – For Hazardous Locations – Certified to U.S. Standards

**CSA Field Certification Label issued: serial number U 092081**

Class I, Division 2, Groups B, C and D, Temperature Code T3  
TS/H2S Analyzer, Model: 903 D2  
Electrical Rating: 120 V, 50/60 Hz, 10 A Max, 1 Ph

**Part F**

CLASS – 3218-86: Industrial Control Equipment – Miscellaneous Apparatus – For Hazardous Locations – Certified to U.S. Standards

**CSA Field Certification Label issued: serial number U 092082**

Class I, Division 2, Group B, C and D, Temperature Code T3  
Gas Chromatograph, Model: ACCUCHROME GAS CHROMATOGRAPH  
Electrical Rating: 120 V, 60 Hz, 3 A Max

**APPLICABLE REQUIREMENTS**



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CLASS – 3218-01: Industrial Control Equipment – Custom Built – For Hazardous Locations

- |                                 |   |  |
|---------------------------------|---|--|
| CSA C22.2 No. 0-10              | - | General Requirements - Canadian Electrical Code Part II.   |
| CSA C22.2 No. 14-18             | - | Industrial Control Equipment.  |
| CSA Standard C22.2 No. 30-M1986 | - | Explosion-Proof Enclosures for Use in Class I Hazardous Locations  |
| 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. |
| CSA C22.1-18                    | - | Canadian Electrical Code Part I (as guide)   |

CLASS – 3218-86: Industrial Control Equipment – Miscellaneous Apparatus – For Hazardous Locations – Certified to U.S. Standards

- |                                   |   |  |
|-----------------------------------|---|--|
| UL 508 – 18 <sup>th</sup> Edition | - | Industrial Control Equipment.  |
| UL 121201-1, 9th Edition          | - | Nonincendive Electrical Equipment for Use in Class I and II, Division 2 and Class III, Divisions 1 and 2 Hazardous (Classified) Locations. |

**MARKINGS**

- Submitter's name
- Model designation
- Complete electrical rating
- Serial number traceable to month and year of manufacture
- Hazardous Location designations
- Temperature code

The following additional markings on Part A:

- TYPE Z PURGE
- WARNING: THE SAFETY OF THIS EQUIPMENT RELIES ON THE PROVISION OF PROPER PURGING AND PRESSURIZING WHEN USED IN HAZARDOUS LOCATIONS. IT MUST NOT BE PUT INTO USE WITHOUT "SPECIAL PERMISSION" FROM THE INSPECTION AUTHORITY HAVING JURISDICTION.
- WARNING: REMOVE POWER BELOW 0.1 INCH OF WATER COLUMN.
- WARNING: ENCLOSURE SHALL NOT BE OPENED UNLESS THE AREA IS KNOWN TO BE NON-HAZARDOUS, OR UNLESS ALL DEVICES WITHIN THE ENCLOSURE HAVE BEEN DE-ENERGIZED. POWER MUST NOT BE RESTORED AFTER THE ENCLOSURE HAS BEEN OPENED UNTIL THE ENCLOSURE HAS BEEN PURGED FOR 20 MINUTES, AT A FLOW RATE OF 80 SCFH.
- ATTENTION : LA SÉCURITÉ DE CET ÉQUIPEMENT DÉPEND DE LA MISE EN ŒUVRE D'UNE PURGE ET D'UNE PRESSURISATION SUFFISANTES LORS D'UNE UTILISATION DANS LE ZONES À RISQUE. IL NE DOIT PAS ÊTRE MIS EN ŒUVRE SANS UNE "AUTORISATION SPÉCIALE" DE L'ORGANISATION AYANT AUTORITÉ POUR L'INSPECTION.
- ATTENTION : ARRÊTER L'ALIMENTA NON ÉLECTRIQUE QUAND LA PRESSION DESCEND EN DESSOUS DE 25 PA.
- ATTENTION ENCEINTE SOUS PRESSION: CETTE ENCEINTE NE DOIT PAS ÊTRE OUVERTE SI