



Certificate of Compliance

Certificate: 70068210

Master Contract: 264933

Project: 80107016

Date Issued: 2022-03-11

Issued To: Emerson Process Management Limited
2 Hunt Hill Cumbernauld
Glasgow, Lanarkshire, G68 9LF
United Kingdom

Attention: Vicente Ramirez

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: *Lucas Nieuwenhout*
Lucas Nieuwenhout



PRODUCTS

CLASS 2258 02 - PROCESS CONTROL EQUIPMENT for Hazardous Locations

CLASS 2258 82 - PROCESS CONTROL EQUIPMENT for Hazardous Locations - Certified to US Standards

Marking (Class 2258-02)

Class I Division 2 Groups B, C, D T4

Ex db IIB + H₂ T4 Gb

T_{amb} = -20°C to +55°C

Type 3RX, IP66

Marking (Class 2258-82)

Class I Division 2 Groups B, C, D T4

Class I Zone 1 AEx db IIB + H₂ T4 Gb

T_{amb} = -20°C to +55°C

Type 3RX IP66



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Continuous Gas Analyzer, Model CT5800
110 V to 120 V, 60 Hz
220 V to 240 V, 50 Hz
1100 W max.
Class 1 permanently connected fixed equipment
OVC II
PD3 External
Maximum operating pressure of process gas: 1 bar(g)
Temperature of process gas: +4⁰C to +60⁰C

Conditions of Acceptability:

1. The equipment has flameproof joints with dimensions which are other than those specified in Table 2 of ANSI/UL 60079-1: 6th Edition and Table 3 of CSA C22.2 60079-1:16. These flameproof joints are not intended to be repaired but where necessary the original manufacturer shall be contacted for guidance and information on the dimensions of the flameproof joints.
2. The fasteners which secure the cover are non-standard and shall therefore only be replaced by fasteners supplied by the manufacturer for this purpose. The fasteners must always be fitted with the washer supplied by the manufacturer.
3. The equipment has non-conductive surfaces which are a potential electrostatic charging hazard – see the instructions for guidance.
4. The user shall ensure that the flow of process gas is limited to a maximum flow rate of 6 litres per minute.
5. The equipment shall only be used with process gases which are in gas groups B, C or D (Divisions) or IIB + H₂ (Zones) and must not contain oxygen or any other oxidizer in concentrations greater than that found in normal air.
6. This assessment does not cover reliable function, performance, or other properties of the equipment not related to safety.
7. The equipment is to be installed using wire no larger than 1 mm² (18 AWG).
8. The equipment is only to be installed by manufacturer trained personnel.
9. If at any time there is a conflict between the system safety provisions and any relevant local (national or regional) requirements, the local requirements always take precedence.
10. The equipment is not to be used with flammable liquids.

APPLICABLE REQUIREMENTS

CAN/CSA-C22.2 No. 61010-1-12	-	Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use, Part 1: General Requirements
UL Std. No. 61010-1 (3rd Edition)	-	Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use - Part 1: General Requirements
CAN/CSA-C22.2 No. 60079-0:15	-	Electrical apparatus for explosive gas atmospheres- Part 0: General requirements
CAN/CSA-C22.2 No. 60079-1:16	-	Explosive Atmospheres – Part 1: Equipment Protection by Flameproof Enclosures “d”



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ANSI/UL 60079-0: 6 th Edition	-	Electrical Apparatus for Explosive Gas Atmospheres - Part 0: Equipment - General Requirements
ANSI/UL 60079-1: 6 th Edition	-	Explosive Atmospheres - Part 1: Equipment Protection by Flameproof Enclosures “d”
CSA C22.2 No. 94.1-15 / UL50	-	Enclosures for electrical equipment, non-environmental considerations
CSA C22.2 No. 94.2-15 / UL50E	-	Enclosures for Electrical Equipment, Environmental Considerations

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 CSA Mark, as shown on the Certificate of Conformity.
- Manufacturer’s name: “Emerson Process Management Ltd”, or CSA Master Contract Number “264933”, adjacent to the CSA Mark in lieu of manufacturer’s name.
- Model number in accordance with the product section of this report
- Certificate number: CSA 17.70068210X
- Marking in accordance with the product section of this report
- Electrical Rating
- Date of manufacture: Month and year of manufacture or date code. If a serial number is used instead of date of manufacture, a record of serial numbers shall be kept traceable to date of manufacture. (Not related to date of sale)
- The protective earthing TERMINAL is identified by the IEC 60417 No 5019 symbol “⊕” adjacent to the TERMINAL
- Units provided with Laser shall comply with the marking and other requirements of IEC 60825 and of Canadian and U.S. federal regulations
- The warning “WARNING – DO NOT OPEN WHEN ENERGISED” (cast into the enclosure cover)
- “*AVERTISSEMENT - NE PAS OUVRIR SOUS TENSION*”
- The warning “WARNING - DO NOT OPEN WHEN AN EXPLOSIVE ATMOSPHERE IS PRESENT”
- “*AVERTISSEMENT – NE PAS OUVRIR SI UNE ATMOSPHERE EXPLOSIVE GAZEUSE EST PRÉSENTE*”
- The warning “WARNING – POTENTIAL ELECTROSTATIC CHARGING HAZARD – SEE INSTRUCTIONS”



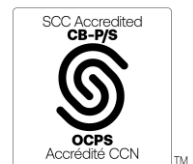
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- *“AVERTISSEMENT – DANGER POTENTIEL DE CHARGES ÉLECTROSTATIQUES – VOIR INSTRUCTIONS”*
 - The warning “WARNING - A SEAL SHALL BE INSTALLED WITHIN 50 mm OF THE ENCLOSURE”
“AVERTISSEMENT – UN SCELLEMENT DOIT ÊTRE INSTALLÉ À MOINS DE 50 mm DU BOÎTIER

Notes:

Products certified under Class C225802, C225882 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

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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

Project	Date	Description
80107016	2022-03-11	Update to report 70068210 to update certificate with new company name and address, and update label drawing to reflect changes. There are no changes to the product or ratings.
70207920	2019-03-25	Update to report 70068210 to assess the following modifications: To introduce changes to permissible laser path lengths. To introduce an improved gas fitting for the PT100 temperature sensor. To introduce alternative detector models PDA10DA and PDAVJ8. To introduce an additional 3 tapped holes on the bottom housing of the enclosure. To introduce an alternative input module in the flameproof enclosure. The recognition of administrative modifications to scheduled drawings.
70068210	2017-05-25	Original Certification.