



Certificate of Compliance

Certificate: 70047714

Master Contract: 225996

Project: 80163923

Date Issued: 2023-06-28

Issued To: Endress+Hauser Optical Analysis Inc.
11027 Arrow Route
Rancho Cucamonga, California, 91730
United States

Attention: Paulo Silva

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: Peter Do
Peter Do

PRODUCTS

CLASS 2258 02 - PROCESS CONTROL EQUIPMENT – For Hazardous Locations

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

Class I, Division 2, Groups A, B, C and D, T3, Type 4X;

Oxygen Analyzer, Model OXY5500.

Rated at 120-240Vac 115mA max, 50/60Hz or at 9-30Vdc, 0.5A max. For use in an ambient temperature range of: -20°C to +60°C.

Relay contact ratings for external connection: L-S1 and L-S2 with the following rating specifications: 250mA, Maximum peak Voltage= 400V.



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Conditions of Acceptability:

- Interconnection of the Analyzer enclosure shall be accomplished using wiring methods approved for Class I, Division 2 hazardous locations as per the Canadian Electrical Code (CEC) Appendix J and the National Electrical Code (NEC) Article 501.

APPLICABLE REQUIREMENTS

CAN/CSA C22.2 No. 94.2-15	Enclosures for Electrical Equipment, Environmental Considerations
CAN/CSA C22.2 No. 61010-1-12 + UPD1:2015, UPD2:2016, AMD 1 – 18	Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use – Part 1: General Requirements
CAN/CSA C22.2 No. 213-17 + UPD 1 (2018) + UPD 2 (2019) + UPD 3 (2021)	Non-incendive Electrical Equipment for Use in Class I and II, Division 2, and Class III Hazardous (Classified) Locations
ANSI/UL 61010-1-2018 Third Edition	Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use – Part 1: General Requirements
ANSI/UL 50E-15 Second Edition	Enclosures for Electrical Equipment, Environmental Considerations
ANSI/UL 121201-2021 Ninth Edition	Non-incendive Electrical Equipment for Use in Class I and II, Division 2, and Class III 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.

Nameplate adhesive label material approval information:

The following markings appear on CSA Certified nameplate materials listed below:

-Pressure Sensitive “468” Computer imprintable brush serrated aluminum, 5mil to 25mil with screen process printing.



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- Manufacturer's name: "Endress+Hauser Optical Analysis Inc", or CSA Master Contract Number "225996", adjacent to the CSA Mark in lieu of manufacturer's name.
- Model designation: 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, or serial number, traceable to year and month of manufacture.
- Enclosure ratings: As specified in the PRODUCTS section, above.
- The CSA Mark, with or without the "C" and "US" indicators, as shown on the Certificate of Conformity.
- Hazardous Location designation: As specified in the PRODUCTS section, above. The word "Class" may be abbreviated "CL", the word "Division" may be abbreviated "DIV", and the word "Groups" may be abbreviated "GRP" or "GP".
- Temperature code: As specified in the PRODUCTS section, above.
- The following words, or suitable equivalent, in English and French:
 - "WARNING – EXPLOSION HAZARD. DO NOT DISCONNECT WHILE THE CIRCUIT IS LIVE OR UNLESS THE AREA IS FREE OF IGNITIBLE CONCENTRATIONS.", and "AVERTISSEMENT – RISQUE D'EXPLOSION. NE PAS DÉBRANCHER PENDANT QUE LE CIRCUIT EST SOUS TENSION OU À MOINS QUE L'EMPLACEMENT NE SOIT EXEMPT DE CONCENTRATIONS INFLAMMABLES."
 - "WARNING – EXPLOSION HAZARD. DO NOT REMOVE OR REPLACE FUSES UNLESS POWER HAS BEEN DISCONNECTED OR THE AREA IS FREE OF IGNITIBLE CONCENTRATIONS", and "AVERTISSEMENT – RISQUE D'EXPLOSION. NE PAS RETIRER NI REMPLACER LES FUSIBLES À MOINS QUE L'ALIMENTATION N'AIT ÉTÉ COUPÉE OU QUE L'EMPLACEMENT NE SOIT EXEMPT DE CONCENTRATIONS INFLAMMABLES"

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
80163923	2023-06-28	Evaluation to update cCSAus report # 70047714 (last project 70091002) for Class I, Division 2 non-incendive Oxygen Analyzer Model OXY5500 for addition of new gasket material, power supply, terminal end plate and bracket and update to CSA C22.2 No. 213-17 per certification notice Hazardous Locations Products No. 28.
70091002	2016-12-02	Update report 70047714 in order to add a new gasket and to update the electrical ratings for DC supply to: 9 - 30Vdc, 0.5A max.
70047714	2016-02-22	Original certification for Class I Div.2 of OXY5500.