



Certificate of Compliance

Certificate: 2716422

Master Contract: 225996

Project: 70219776

Date Issued: 2019-06-24

Issued To: SpectraSensors, 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: Sorin Tat
Sorin Tat



PRODUCTS

CLASS - C225802 - PROCESS CONTROL EQUIPMENT For Hazardous Locations

CLASS - C225882 - PROCESS CONTROL EQUIPMENT For Hazardous Locations - Certified to US Standards

Class I, Division 1, Groups B, C and D; T4; $-20^{\circ}\text{C} \leq T_{\text{amb}} \leq +50^{\circ}\text{C}$, Enclosure Type 4.

Moisture and Carbon Dioxide monitors for Natural Gas models SS2000XP (Single Head) and SS500XP (Single Head), rated at 100-240Vac 50/60Hz, 9-16Vdc, or 18-32Vdc, 20W max.

Note: Conduit runs must have a certified sealing fitting installed within 18 inches of the enclosure.



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APPLICABLE REQUIREMENTS

CAN/CSA C22.2 No. 0-M91	-	General Requirements - Canadian Electrical Code, Part II
CSA C22.2 No. 30-M1986 (R2012)	-	Explosion-Proof Enclosures for Use in Class I Hazardous Locations
CAN/CSA 61010-1-12	-	Safety Requirements for Electrical Equipment for Measurement, Control and Laboratory Use - Part 1: General Requirements - Third Edition
CAN/CSA C22.2 No. 94-M91	-	Special Purpose Enclosures
UL 1203 5 th Edition	-	Explosion-Proof and Dust-Ignition-Proof Electrical Equipment for Use in Hazardous (Classified) Locations
ANSI/UL 61010-1 (3 rd Edition)	-	Safety Requirements for Electrical Equipment for Measurement, Control and Laboratory Use - Part 1: General Requirements - Third Edition
UL 50 11 th Edition	-	Enclosures for Electrical Equipment

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 following markings are etched and filled with ink on 0.018 inch thick 316 Series stainless steel nameplate that is secured to the side wall of the monitor enclosure with four drive screws:

- Submitter's Name "SpectraSensors" or Master Contract Number "225996".
- Model number.
- Complete electrical ratings.
- Hazardous locations designation marking.
- Temperature Code.
- Ambient Temperature Range.
- "Enclosure Type 4".
- The following Warning and Caution markings:



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- “WARNING - EXPLOSION HAZARD – OPEN CIRCUIT BEFORE REMOVING COVER” and “AVERTISSEMENT – RISQUE D’EXPLOSION – OUVRIR LE CIRCUIT AVANT D’ENLEVER LE COUVERCLE”.
- “WARNING – EXPLOSION HAZARD – CONDUIT RUNS MUST HAVE A SEALING FITTING CONNECTED WITHIN 18 INCHES OF THE ENCLOSURE” and “AVERTISSEMENT – RISQUE D’EXPLOSION – CONDUIT DOIVENT ETRE MUNIS D’UN RACCORD DE ETANCHEITE CONNECTE DANS 18 POUCHES DE L’ENCEINTE”.
- “WARNING – COVER JOINTS MUST BE CLEANED BEFORE REPLACING COVER” and “AVERTISSEMENT – NETTOYER LES SURFACES DE CONTACT DU COUVERCLE AVANT DE LE REMETTRE EN PLACE”.
- “WARNING – USE DAMP CLOTH TO CLEAN DISPLAY AND KEYPAD TO AVOID POTENTIAL STATIC ELECTRIC DISCHARGE” and “AVERTISSEMENT – AUX CHARGES ELECTROSTATIQUES. UTILISER UN CHIFFON HUMIDE POUR NETTOYER L’AFFICHEUR ET LE CLAVIER.”
- “CLASS 1 LASER PRODUCT. REFER SERVICING TO MANUFACTURER QUALIFIED PERSONNEL”.

In addition, the following markings are applied on separate adhesive labels affixed on the inside of the monitor enclosure at the locations specified:

- The marking “CAUTION. CLASS 3B INVISIBLE LASER RADIATION WHEN OPEN. AVOID EXPOSURE TO THE BEAM.” applied on an adhesive label affixed to the optical head assembly.
- The Line and Neutral terminals of the mains AC terminal block are identified with “LINE” and “NEU” marked on individual adhesive labels and affixed on the base plate in front of the respective terminal. The Ground terminal of the mains AC terminal block is identified with the Earth ground symbol per IEC 60417-5017 marked on an adhesive label and affixed on the base plate in front of the Ground terminal.
- A triangle containing a smaller triangle with the exclamation mark inside of it and a fuse symbol below, marked on an adhesive label and affixed on the base plate in front of the Line terminal block. This marking communicates to the end user to refer to the product manual for specification of the replacement fuse type and ratings.



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
70219776	2019-06-24	Project Scope: Update report 2716422 project 70047871 to include three new power supplies tested before and replace some electronic boards with RoHS compliant boards and display (no design change).
0002716422	2014-07-24	Certification of Moisture and Carbon Dioxide monitors for Natural Gas models SS500XP (Single Head) and SS2000XP (Single Head) for Class I, Division 1, Groups B, C, and D hazardous locations.