



# Certificate of Compliance

**Certificate:** 70180732

**Master Contract:** 161129

**Project:** 80017604

**Date Issued:** 2019-12-06

**Issued To:** General Monitors, Incorporated  
26776 Simpatica Circle  
Lake Forest, California, 92630  
United States

**Attention:** Larry Vlaga

*The products listed below are eligible to bear the CSA Mark shown*

**Issued by:** *David Genender*  
David Genender



## **PRODUCTS**

CLASS - C481803 - SIGNAL APPLIANCES Miscellaneous - For Hazardous Locations

**Class I, Division 1, Groups B, C, D; Class II, Division 1 Groups E, F, G; Class III; T5  
Ex db IIC T5 Gb; Ex tb IIIC T100°C Db**

UV/IR Flame Detector models FL500 and FL500-H2; Electrical Rating: 20 to 36 VDC, 200 mA max;  
Ambient Temperature: -55°C to +85°C; Enclosure Rating: Type 6P, IP66/IP67



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Notes:

1. The above models are permanently connected, Pollution Degree 2, Overvoltage Category II.
2. Mode of operation: Continuous.
3. Environmental Conditions: Extended: -55°C to +85°C, 2000 m max, humidity range of 0% - 95% RH noncondensing.

Conditions of Acceptability:

1. Equipment shall be installed by properly trained personnel.
2. Potential electrostatic charging hazard; use a damp cloth for cleaning.
3. Contact the manufacturer if dimensional information of flameproof joints is needed.
4. Field connections to the FL500 and FL500-H2 shall be appropriately certified for the location and installed in accordance with wiring method requirements of the local electrical code as applicable.
5. 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.

**APPLICABLE REQUIREMENTS**

CAN/CSA Standard C22.2 No. 0-10 (R2015)	General Requirements - Canadian Electrical Code, Part II
CAN/CSA C22.2 No. 61010-1-12 (R2017)	Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use – Part 1: General Requirements
CAN/CSA C22.2 No. 94.1-15 (Second Edition)	Enclosures for Electrical Equipment, Non-Environmental Considerations
CAN/CSA C22.2 No. 94.2-15 (Second Edition)	Enclosures for Electrical Equipment, Environmental Considerations
C22.2 No. 25-1966 (R2014)	Enclosures for Use in Class II Groups E, F, and G Hazardous Locations
CAN/C22.2 No. 30-1986 (Third Edition) (R2016)	Explosion-Proof Enclosures for Use in Class I Hazardous Locations
CAN/CSA C22.2 No. 60079-0:15 (Third Edition)	Explosive Atmospheres – Part 0: Equipment – General Requirements
CAN/CSA C22.2 No. 60079-1:16 (Third Edition)	Explosive Atmospheres – Part 1: Equipment Protection by Flameproof Enclosures “d”
CAN/CSA C22.2 No. 60079-31:15 (Second Edition)	Explosive atmospheres – Part 31: Equipment Dust Ignition Protection by Enclosure “t”
CAN/CSA C22.2 No. 60529-16 (Second Edition)	Degrees of Protection Provided by Enclosures (IP Code)

**MARKINGS**

The following markings appear on the product:



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1. Submitter's identification (company name and/or file number and/or registered tradename);
2. Marking on the unit that indicates the manufacturing location if the equipment is manufactured at more than one factory location.
3. The products listed are eligible to bear the CSA Mark .
4. Electrical ratings: as specified in the PRODUCTS section above.
5. Ambient temperature rating: as specified in the PRODUCTS section above (may be abbreviated).
6. Enclosure ratings: as specified in the PRODUCTS section above.
7. Hazardous Location designation and Method of Protection (Ex) markings: as specified in the PRODUCTS section above.
8. Temperature Code: as specified in the PRODUCTS section above.
9. The characters "CSA 18.70180732X" when located adjacent to the CSA mark, designating the certification body, followed by the last two digits of the year of report issue, followed by a period, followed by the original report number, followed by the letter "X".
10. 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).
11. The following or equivalent words:
  - a. DO NOT INSTALL OR OPERATE THIS EQUIPMENT WITHOUT FIRST READING AND UNDERSTANDING ALL INSTRUCTIONS, WARNINGS, AND CAUTIONS IN INSTRUCTION MANUAL 10193213. INSTALL CONDUIT SEAL WITHIN 18" OF ENCLOSURE. DO NOT OPEN WHEN ENERGIZED OR WHEN AN EXPLOSIVE ATMOSPHERE IS PRESENT.
  - b. NE PAS INSTALLER IN UTILISER CET EQUIPMENT SANS AVOIR D'AVOIR LU ET COMPRIS TOUTES LE DIRECTIVES, TOUS LES ADVERTISSEMENTS ET TOUTES LES MISES EN GARDE DANS LE MANUEL D'INSTRUCTIONS 10193213. INSTALLER LE JOINT DU CONDUIT DANS UN INTERVALLE DE 18 PO DU BOITIER. NE PAS OUVRIR LORSQUE SOUS TENSION OU EN PRESENCE D'UNE ATMOSPHERE EXPLOSIVE.

The following markings may appear on or within the product by means of different marking method(s):

1. Protective earthing TERMINAL is identified by the IEC 60417 No 5019 symbol , adjacent to the TERMINAL.
2. Terminal designations adjacent to each field wiring terminal.
3. Guidance regarding the proper selection of cables and cable glands or conductors within conduit, including temperature ratings for input conductors.
4. Identification of thread form and type of each conduit entry.