



Certificate of Compliance

Certificate: 70180732 **Master Contract:** 161129
Project: 80224802 **Date Issued:** 2024-11-21
Issued to: General Monitors, Incorporated.
16782 Von Karman Ave. Unit 14
Irvine, California 92606
United States
Attention: Larry Vlaga

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



Issued by: Jerry Thai
Jerry Thai

PRODUCTS

Class 4818 03 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 Detectors

Model(s)	Voltage rating	Power (W)	Ambient Temp (°C)	Enclosure Type Rating
FL500, FL500-H2	20 to 36 VDC	3.0 W max	-55°C to +85°C	Type 6P, IP66/IP67

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.



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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.
 6. Blanking elements shall be suitably certified to maintain ratings of the equipment.
 7. Apply suitable threads sealant to the conduit entry threads; the type of thread sealant used shall not harden due to aging, shall not contain evaporating agents, and shall not cause corrosion to the conduit joint surface.

APPLICABLE REQUIREMENTS

CSA C22.2 No. 61010-1-12 - Third Edition - Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements - Update No. 1: July 2015

CSA C22.2 No. 94.2:15 - Second Edition - Enclosures for electrical equipment, environmental considerations

CSA C22.2 No. 25:17 - Fourth Edition - Enclosures for use in Class II, Division 1, Groups E, F, and G hazardous locations

CSA C22.2 No. 30-M1986 - Third Edition - Explosion-proof enclosures for use in class I hazardous locations - General Instruction No. 1: November 1986; General Instruction No. 2: November 1988

CAN/CSA C22.2 No. 60079-0:15 - Electrical apparatus for explosive gas atmospheres - Part 0: General requirements

CSA C22.2 No. 60079-1:16 (Third Edition) - Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"

CSA C22.2 No 60079-31:15 - Second Edition - Explosive atmospheres — Part 31: Equipment dust ignition protection by enclosure "t"

Markings

Markings as per Markings section of Report 70180732.



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Notes:

Products certified under Class(es) C481803 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
80224802	2024-11-21	Update to Report 70180732 to address issues noted in FC#161131, FIR dated April 23, 2024 with alternative NPT plug.
80161269	2023-03-30	Update to report 70180732 to address the non-conformance issues noted in FIR (Factory ID: 4545189; Factory Contract: 272897, Date: February 9, 2023) (which included minor documentation revision changes and minor revision to the manual) and standard update to CSA C22.2 No. 25-17 per certification notice Hazardous Locations Products No. 35. The following drawings were updated: 712904 Rev 10 712908 Rev 6
80017604	2019-12-05	Canadian Certification - Update report 70180732 to add new model "FL500-H2", which is a version of the FL500 tuned to specifically detect Hydrogen fires. Change includes revision to 8 drawings, including "Approval Drawing" number 712900 to change the 100mm cover threads minimum engagement from 8 to 7. An enclosure sample and calibrated M100 thread gauge is needed to verify the M100 cover threads.
70180732	2018-08-08	Original certification of the UVIR FL500 Flame detector for use in Class I, Division 1, Groups B, C, D; Class II, Division 1, Groups E, F, G; Class III; Ex db IIC; Ex tb IIIC hazardous locations and ordinary locations.