



# Certificate of Compliance

**Certificate:** 70128331

**Master Contract:** 161129

**Project:** 80167786

**Date Issued:** 2023-07-12

**Issued To:** General Monitors, Incorporated.  
16782 Von Karman Ave. Unit 14  
Irvine, California, 92606  
United States

**Attention:** Larry Vlagea

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

**Issued by:**

Daniel Ergezi



## **PRODUCTS**

**CLASS 2258 02** - Process Control Equipment - For Hazardous Locations

**CLASS 2258 03** - Process Control Equipment - Intrinsically Safe and Non Incendive Systems - For Hazardous Locations

**Class I, Division 1 and 2, Groups B, C, and D; Class II, Division 1 and 2, Groups E, F, and G; Class III; T5  
Ex d ia IIB + H2 T6 Gb  
Ex tb IIIC T85°C Db**

Explosionproof/Dust Ignitionproof/Intrinsically safe/Non-Incendive Model Observer i Ultrasonic Gas Leak Detector rated 24 Vdc, 250 mA, Ambient Temperature  $-40^{\circ}\text{C} \leq T_{\text{amb}} \leq 60^{\circ}\text{C}$ ; Enclosure Type 4X.

## **Conditions of Acceptability:**



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1. This equipment is comprised of an Explosionproof housing providing intrinsically safe outputs to an externally mounted intrinsically safe microphone and piezo source. When used in Division 2 locations, a seal is not required at the housing.

2. The Observer-I Ultrasonic Gas Leak Detector is electrically rated for use with extra-low voltage and must be powered by Class 2/SELV power supply, capable of offering overvoltage protection, overcurrent protection, and transient voltage protection from Hazardous voltages.

### **APPLICABLE REQUIREMENTS**

CSA C22.2 No. 94.1-07	Enclosures for Electrical Equipment, Non-Environmental Considerations
CSA C22.2 No. 94.2-07	Enclosures for Electrical Equipment, Environmental Considerations
CAN/CSA C22.2 No. 61010-1-12 + UPD1:2015 +UPD2:2016 +Amd 1 – 18 (R2022)	Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use — Part 1: General Requirements
CSA C22.2 No. 25-17 (R2022)	Enclosures for use in Class II, Division 1, Groups E, F, and G hazardous locations
CSA C22.2 No. 30-M1986 ( <i>Reaffirmed 2007</i> )	Explosion-Proof Enclosures for Use in Class I Hazardous Locations
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
CAN/CSA-C22.2 No. 60079-0:11 Second Edition	Explosive atmospheres – Part 0: Equipment – General requirements
CAN/CSA-C22.2 No. 60079-1:11 Second Edition	Explosive atmospheres – Part 1: Equipment protection by flameproof enclosures “d”
CAN/CSA-C22.2 No. 60079-11:11 First Edition	Explosive atmospheres – Part 11: Equipment protection by intrinsic safety “i”
CAN/CSA-C22.2 No. 60079-31:12 First Edition	Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure “t”

### **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.



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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, without any adjacent indicators, indicating that products have been manufactured to the requirements of Canadian Standards.

Nameplate adhesive label material approval information: The following markings appear on an adhesive-type nameplate, comprised of 468MP series adhesive manufactured by 3M (UL File [MH26206](#)), UV coating and polycarbonate film Lexan 8010 manufactured by Sabic (UL File [E121562](#)). Nameplate is affixed to the bottom of the un-painted aluminum or stainless steel enclosure.

- Manufacturer's name: "General Monitors", or CSA Master Contract Number "161129", adjacent to the CSA Mark in lieu of manufacturer's name.
- Model number: 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 in MMY format, or serial number, traceable to year and month of manufacture.
- Enclosure ratings: As specified in the PRODUCTS section, above.
- The designation "CSA 17CA70128331X"
- The CSA Mark, as shown on the Certificate of Conformity.
- Hazardous Location designation: As specified in the PRODUCTS section, above (may be abbreviated).
- Temperature code: As specified in the PRODUCTS section, above.
- The following words:
  - "Exia"
  - "INTRINSICALLY SAFE" and "SÉCURITÉ INTRINSÈQUE"
  - "WARNING: SUBSTITUTION OF COMPONENTS MAY IMPAIR INTRINSIC SAFETY" and "AVERTISSEMENT: LA SUBSTITUTION DE COMPOSANTS PEUT COMPROMETTRE LA SÉCURITÉ INTRINSÈQUE"
  - "OPEN CIRCUIT BEFORE REMOVING COVER" and "OUVRIR LE CIRCUIT AVANT D'ENLEVER LE COUVERCLE", or "KEEP COVER TIGHT WHILE CIRCUITS ARE ALIVE" and "GARDER LE COUVERCLE BIEN FERMÉ TANT QUE LES CIRCUITS SONT SOUS TENSION" or the equivalent.
  - "DO NOT OPEN WHEN AN EXPLOSIVE ATMOSPHERE IS PRESENT. READ AND UNDERSTAND INSTRUCTIONS MANUAL BEFORE OPERATING OR SERVICING. 6-M6 BOLTS MUST BE TIGHTENED TO 9 NM" and "NE PAS OUVRIR UN PRÉSENCE D'ATMOSPHÈRE EXPLOSIVE. LIRE ET COMPRENDRE MANUEL D'INSTRUCTIONS AVANT D'UTILISER OU SERVICE. VIS 6 M6 DOIVENT ÊTRE SERRÉES AU 9 NM."
  - "WARNING: Danger of electro-static sparking. Clean non-metallic parts only with a damp cloth." and "AVERTISSEMENT: Danger d'électro-statique étincelles. Nettoyer les pièces non métalliques uniquement avec un chiffon humide."



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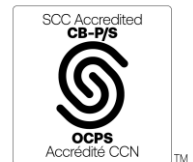
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**Notes:**

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Products certified under Class C225802, C225803 have been certified under CSA's ISO/IEC 17065 accreditation with the Standards Council of Canada (SCC). [www.scc.ca](http://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**

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<b>Project</b>	<b>Date</b>	<b>Description</b>
80167786	2023-07-12	<p>Update to CSA report 70128331 for minor drawing revisions, change from 62mA fuse to 50mA fuse (due to RoHS), and to update the assessment to the equipment to the following latest standards:</p> <ul style="list-style-type: none"><li>• CAN/CSA C22.2 No. 61010-1-12 + UPD1:2015, UPD2:2016 and AMD1-18 (R2022) per Hazloc Inform No. 25A</li><li>• CAN/CSA C22.2 No. 213-17 + UPD 1 (2018) + UPD 2 (2019) + UPD 3 (2021) per Hazloc Notice No. 28</li><li>• CAN/CSA C22.2 No. 25-17 (R2022) per Hazloc Notice No. 35</li></ul> <p>Added a new “Condition of Acceptability” and in the “MARKINGS” section, added the missing CSA certificate number of “CSA 17CA70128331X” and removed the following standards per CSA policy:</p> <p>CAN/CSA-C22.2 No. 0-10 CAN/CSA-C22.2 No. 60529:05 CAN/CSA C22.2 No. 157-92 (Reaffirmed 2006)</p>
80008608	2019-08-26	<p>Update report 70128331 to include updates to drawing 805701, 805730, 805731, and 805731-2. Quote assumes no testing is required.</p>
70144591	2017-09-29	<p>"Evaluation for update of report 70128331 to revise nameplate material. With no change to Product Listing / Cert Record. Quote assumes: 1. No major evaluation or testing required. 2. Per CSA Notice 25A - Ordinary Location Standard CSA 142 is required to be updated to CSA 61010 for any major updates to the product. 3. This quote assumes that the requested revision is minor and does not include an upgrade from CSA 142 to CSA 61010."</p>
70128331	2017-05-11	<p>Transfer CSA Certification Report 2667762 from Master Contract 167534 (Legacy File 064969) to Master Contract 161129 and update several drawings in the descriptive document list.</p>