



# Certificate of Compliance

**Certificate:** 1905645

**Master Contract:** 227773

**Project:** 70159520

**Date Issued:** November 28, 2017

**Issued to:** Advanced Micro Instruments, Inc.  
18269 Gothard Street  
Huntington Beach, CA 92648  
USA

**Attention:** Charles Schacht

*The products listed below 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 US Standards) or with adjacent indicator 'US' for US only or without either indicator for Canada only*



**Issued by:**

A handwritten signature in black ink, appearing to read 'Oong Lee'.

Oong Lee

## PRODUCTS

**CLASS 4828 02** – SIGNAL APPLIANCES – Toxic Gas Detection Instruments – For Hazardous Locations

**CLASS 4828 82** – SIGNAL APPLIANCES – Toxic Gas Detection Instruments – For Hazardous Locations.

Certified to U.S. Standards

### **Class I, Division 1, Groups B, C and D:**

Series 2010BR and 210BR Oxygen Analyzers and series 3010BR Hydrogen Sulfide Analyzers, input rated 117Vac, 0.5A max, 50/60Hz or 12-24VDC, 1.7A max or 12-24VDC, 0.1A max; with output rated 1-5V or 4-20mA; with or without built-in heater; provides intrinsically safe output to attached external measurement section (also located in Class I, Div 1, Groups B, C and D); Alarm relay contacts rated 117VAC/5A, 28VDC/5A and Resistive; Temperature Code T3A.



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### **APPLICABLE REQUIREMENTS**

CSA C22.2 No 0-10	General Requirements – Canadian Electrical Code, Part II – Tenth Edition
CSA C22.2 No 30-M1986 (R 2007)	Explosion-Proof Enclosures for Use in Class I Hazardous Locations Industrial Products – Third Edition
CSA C22.2 No 142-M1987 (R 2009)	Process Control Equipment Industrial Products – Third Edition
CSA C22.2 No 157-92 (R 2006)	Intrinsically Safe and Non-Incendive Equipment for Use in Hazardous Locations – Third Edition
UL 913	Intrinsically Safe Apparatus and Associated Apparatus for Use in Class I, II, and III, Division 1, Hazardous (Classified) Locations - Seventh Edition
UL 916	Energy Management Equipment – Fourth Edition
UL 1203	Explosion-Proof and Dust-Ignition-Proof Electrical Equipment for Use in Hazardous (Classified) Locations – Fourth Edition

### **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 permanently embossed, die-stamped or etched on a metallic nameplate, have a minimum thickness of 0.5mm, which is secured to flow-meter enclosure by two screws.

- Manufacturer's name: "Advanced Micro Instruments", or CSA Master Contract Number "227773", 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.
- Relay contacts rating: As specified in the PRODUCTS section, above.
- Manufacturing date in MMY format, or serial number, traceable to month of manufacture.
- The CSA Mark with or without "C" and "US" indicators, 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:
  - Caution: "Warning – Explosion Hazard – Keep explosion-proof cover tight while circuits are alive. Substitution of components may impair intrinsic safety"