



Certificate of Compliance

Certificate: 1031027 **Master Contract:** 164369 (048179_0_000)

Project: 70097231097231 **Date Issued:** 2017-02-24

Issued to: **Ametek Canada LP**
2876 Sunridge Way NE
Process & Analytical Instruments
Division
Calgary, Alberta T1Y 7H9
CANADA
Attention: Allan Delesoy

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: *Bill Bizuk, P.Eng*
Bill Bizuk, P.Eng.

PRODUCTS

CLASS - C225802 - PROCESS CONTROL EQUIPMENT-For Hazardous Locations-

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

For Canada

Class I, Division 1, Groups C and D, Ex d IIB, T3

Optionally: Class I, Division 1, Groups B, C and D, Ex d IIB+H2, T3

Process Analyzer, Model 93X, rated at 104~132 VAC / 208~264 VAC, 3.0 / 2.0 A, <500 Watts, 50/60 Hz,
Operating Temperature Ambient 0°C to 50°C.

Note:

The Suffix "X" represents option which is application specific to different gases, concentrations and pressures

For USA

Class I, Division 1, Groups C and D, and/or Class I, Zone 1, AEx d IIB, T3

Optionally: Class I, Division 1, Groups B, C and D, and/or Class I, Zone 1, AEx d IIB+H2, T3



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Note:

1. The Suffix “X” represents option which is application specific to different gases, concentrations and pressures.
2. Conduit seal is to be placed within 10 inches of lower enclosure for products approved for ‘Group IIB+H2’.

APPLICABLE REQUIREMENTS

CAN/CSA- C22.2 No 0-10	-	General Requirements - Canadian Electrical Code Part II.
CAN/CSA-C22.2 No 0.4-04 (R2013)	-	Bonding of Electrical Equipment
CAN/CSA-C22.2 No 0.5-M1982 (R2012)	-	Threaded conduit entries
CAN/CSA-C22.2 No.30-M1986 (R2012)	-	Explosion-Proof Enclosures for use in Class I Hazardous Locations
CAN/CSA-C22.2 No. 61010-1-12	-	Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use - Part 1: General Requirements (Tri-national standard, with UL 61010-1 and ANSI/ISA-61010-1 (82.02.01)
CAN/CSA-C22.2 No. 60079-0:11	-	Explosive atmospheres - Part 0: Equipment - General requirements (Adopted IEC 60079-0:2007, fifth edition, 2007-10, with Canadian deviations)
CAN/CSA-C22.2 No. 60079-1:11	-	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d" (Adopted IEC 60079-1:2007, sixth edition, 2007-04, with Canadian deviations)
UL 60079-0 (5th Edition - 2009)	-	Electrical apparatus for explosive gas atmospheres - Part 0: General Requirements
UL 60079-1 (6th Edition - 2009)	-	Electrical apparatus for explosive gas atmospheres - Part 1: Flameproof Enclosures “d”
UL 61010-1:12	-	Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use - Part 1: General Requirements
UL 1203, 5 th Ed.	-	Explosion-proof and dust-Ignition-Proof electrical Equipment for Use in hazardous (Classified) Locations

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.



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- (1) Submitter's name, trademark, or (the CSA file number adjacent the CSA Mark - optional).
- (2) Catalogue / Model designation or equivalent.
- (3) Complete electrical rating (amps, hertz, and volts).
- (4) Applicable Hazardous Locations Class, Group and Division for Canada and the USA
- (5) Temperature Code.
- (6) Operating Temperature Range
- (7) Date code / Serial number traceable to month and year of manufacture.
- (8) The CSA Mark with "NRTL/C" or "C US" indicator adjacent.
- (9) The IEC 417, No. 5032 Alternating Current symbol (manufacture may use this mark and refer to accompanying documents);
- (10) The ISO 3864, No. B.3.6 Caution, risk of electric shock symbol (refer to accompanying documents);
- (11) The ISO 3864, No. B.3.1 Caution symbol (refer to accompanying documents);
- (12) The ISO 417, No. 5041 Caution hot surface symbol (refer to accompanying documents) marked on the and optional cell heater;
- (13) The ISO 417, No. 5017 Earth (ground) symbol (refer to accompanying documents).
- (14) Caution Warnings "OPEN CIRCUIT BEFORE REMOVING COVER"
And/or "OUVRIR LE CIRCUIT AVANT D'ENLEVER LE COUVERCLE"
- (15) Caution Warnings "COVER JOINTS MUST BE CLEANED BEFORE REPLACING COVER"
And/or "NETTOYER LES SURFACES DE CONTACT DU COUVERCLE AVANT DE LE
REMETTRE EN PLACE"
- (16a) Caution Warnings "FOR GAS GROUPS C & D and GROUP IIB A SEAL SHALL BE INSTALLED
WITHIN 450 MM OF THE ENCLOSURE"
And/or "UN SCHELLEMENT DOIT ETRE INSTALLE A MOINS DE 450 MM DU BOITIER"
- (16b) Caution Warnings "FOR GAS GROUPS B, C, & D and GROUP IIB+H2 A SEAL SHALL BE
INSTALLED WITHIN 10 inches OF THE ENCLOSURE"
And/or "UN SCHELLEMENT DOIT ETRE INSTALLE A MOINS DE 254 MM DU BOITIER"



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
70097231	2017-02-24	Updates to Report 1031027 for use with alternate potting material for Communications port based on Report and Test Data provided by Dekra,IECEX /ATEX Certificates.
70084489	2016-00-00	Update to report 1031027 to include the addition of certified varistors to AC Power Distribution Board 100-1771 and PCB 300-9163.
2644032	2014-04-02	Update to report 1031027 to include optional Gas Group IIB+H2 based on the previous projects test results. It also updates to 61010-1-12, 3rd Edition, safety standard based on the 2nd Edition compliance.
2062671	2008-09-12	Update of report 1031027 to include digital display, IR sensor, TC sensor, add a M25 entry & vent flame arrestor locations, alternate power supply, typo corrections.
1385514	2003-02-13	Update to 1031027 to include alternate Micro-Interface Board, adding optional certified. ASR900 probe, new power ratings.
1179252	2001-04-30	Upgrade of Optical Bench PCB to eliminate potential voltage spikes.
1031027	2000-03-17	Original Certification for Process Analyzer, Model 93X for use in Hazardous Locations.Originally issued as 2500004397