Certificate of Compliance

Certificate:	80188655	**Master Contract:**	187869
Project:	80298143	**Date Issued:**	2026-05-27
Issued to:	**Crystal Engineering Corp.** **708 Fiero Lane, Suite 9** **San Luis Obispo, California** **93401** **United States** **Attention:** Trevor Leger	**Issued by:**	*Daniel Ergezi* Daniel Ergezi, Certifier I

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.

PRODUCTS

Class 2258 04 PROCESS CONTROL EQUIPMENT - Intrinsically Safe, Entity - For Hazardous Locations
Class 2258 84 PROCESS CONTROL EQUIPMENT - Intrinsically Safe, Entity - For Hazardous Locations - Certified to US Standards

Class I, Division 1, Groups A, B, C and D T*
Ex ia IIC T* Ga
Class I, Zone 0, AEx ia IIC T* Ga

Digital Test Gauge Model Series XP3i and XP3i-DD; Intrinsically safe when powered by 3 primary 1.5V AA cells (Approved cell type only*); USB port: Um = 6 V; Ambient temperature various**. Maximum working pressure up to 15,000 PSI.

*Note: refer to Conditions of Acceptability for temperature class and ambient temperature.

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APPLICABLE REQUIREMENTS

Standards Used	Description
CAN/CSA C22.2 No. 61010-1-12, UPD1:2015, UPD2:2016, AMD1:2018	Safety requirements for electrical equipment for measurement, control, and laboratory use — Part 1: General requirements
UL 61010-1:2012 - Third Edition - Including revisions through November 21, 2018	Electrical Equipment For Measurement, Control, and Laboratory Use; Part 1: General Requirements
CAN/CSA C22.2 No. 60079-0:19	Explosive atmospheres - Part 0: Equipment - General requirements
ANSI/UL 60079-0-2020 Seventh Edition	Electrical Apparatus for Explosive Gas Atmospheres - Part 0: General Requirements
CAN/CSA-C22.2 No 60079-11:14	Explosive Atmospheres - Part 11: Equipment protection by intrinsic safety 'i'
ANSI/UL 60079-11-2018 - Sixth Edition	Explosive Atmospheres - Part 11: Equipment Protection by Intrinsic Safety 'i'

Conditions Of Acceptability

1. Enclosure of the XP3i and XP3i-DD is made of aluminum, ignition sources due to impact and friction shall be excluded.

2. To avoid sparks caused by electrostatic discharge, the XP3i must be earthed during use in hazardous locations. This may be accomplished by providing an appropriate and continuous path to earth through the pressure fitting, the metal enclosure or the hand of the user.

3. USB connector shall not be used in Hazardous Locations.

4. Ambient temperature range and Temperature class depend on the type of the used cells:

Approved Cell Type*	Ambient temperature**	Temperature class
Rayovac 815	-20 to 50 °C	T3C
Duracell MN1500	-20 to 50 °C	
Energizer E91	-18 to 50 °C	
Energizer EN91	-18 to 50 °C	
Panasonic LR6XWA	-20 to 45 °C	
Varta 4106 Longlife	-10 to 45 °C	
Varta 4706 Max Tech	-20 to 45 °C	T4
Energizer EN91 Industrial	-18 to 45 °C	
Varta 4906 Longlife Power	-10 to 45 °C	

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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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 provided on an adhesive nameplate, manufactured by 3M, designated type 467MP or 468MP (UL File# MH17478). Nameplate is affixed to the exterior of the enclosure.

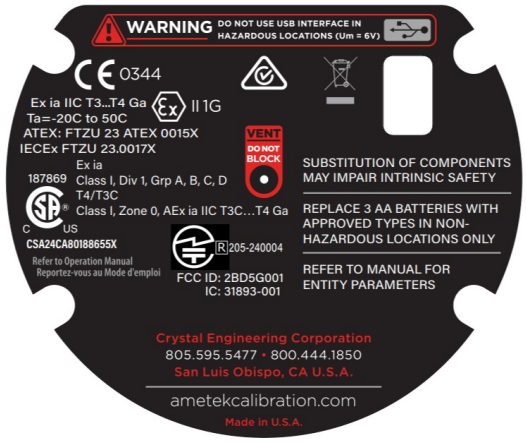
- Manufacturer's name: "Crystal Engineering Corp.", or CSA Master Contract Number "187869", adjacent to the CSA Mark in lieu of manufacturer's name.
- Model designation: As specified in the PRODUCTS section, above.
- Electrical ratings: As specified in the PRODUCTS section, above.
- Ambient temperature rating: As specified in the PRODUCTS section, above.
- Manufacturing date, or serial number, traceable to year and month of manufacture.
- The CSA Mark, as shown on the Certificate of Compliance.
- The designation "CSA24CA80188655X".
- Hazardous Location designation: As specified in the PRODUCTS section, above. The word "Class" may be abbreviated "CL", the word "Division" may be abbreviated "DIV", and the word "Groups" may be abbreviated "GRP" or "GP".
- Method of Protection markings (Ex – markings): As specified in the PRODUCTS section, above. The word "Class" may be abbreviated "CL", the word "Zone" may be abbreviated "ZN".
- Temperature code: As specified in the PRODUCTS section, above.
- The following words, or suitable equivalent, in English and French:
  - "Refer to Operation Manual" and " Reportez-vous au Mode d'emploi ".
- The following words, or suitable equivalent, in English and French, on the instruction manual:
  - For Canada: "INTRINSICALLY SAFE" and "SECURITE INTRINSEQUE", or "IS" or "I.S." or the symbol "Ex ia"
  - "WARNING: SUBSTITUTION OF COMPONENTS MAY IMPAIR INTRINSIC SAFETY", and "AVERTISSEMENT: LA SUBSTITUTION DE COMPOSANTS PEUT COMPROMETTRE LA SECURITE INTRINSEQUE"
  - Where Um ≠ 250V: The words "Maximum non-hazardous voltage not to exceed 6V."
  - "REPLACE 3 AA BATTERIES WITH APPROVED TYPES IN NON-HAZARDOUS LOCATIONS ONLY" and "REMPLACEZ 3 PILES AA PAR DES TYPES APPROUVÉS UNIQUEMENT DANS DES ENDROITS NON DANGEREUX"

Copy of the nameplate labels on drawing 7131 and 7132 are provided below.

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Notes:

Products certified under Class(es) C225804, C225884 have been certified under CSA's ISO/IEC 17065 accreditation with the Standards Council of Canada (SCC). www.scc.ca

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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
80298143	2026-05-27	Update to report 80188655 to address the non-conformance issues noted in FIR (Factory Contract: 234921; Factory ID: 4573452; Date: December 23, 2025) (documentation revision changes) and other minor miscellaneous documentation updates.
80219638	2024-09-16	Evaluation to update cCSAus report # 80188655 for intrinsically safe Digital Test Gauge Model Series XP3i and XP3i-DD for addition of 15,000 psi model using the same sensor with no changes to electrical or mechanical systems.
80188655	2024-01-30	Original cCSAus certification of intrinsically safe XP3i Series Digital Pressure Gauge based on the acceptance of IECEx Certificate IECEx FTZU 23.0017X. Markings: IS Class I, Division 1, Groups A, B, C, D T3C…T4 Ex ia IIC Ga Class I, Zone 0 AEx ia IIC Ga -20°C to +50°C

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