



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: **IECEX CSA 05.0001X** issue No.:1

Certificate history:
Issue No. 1 (2008-5-5)
Issue No. 0 (2005-1-18)

Status: **Current**

Date of Issue: **2008-05-05** Page 1 of 4

Applicant: **Crystal Engineering Corp.**
720 Aerovista Place Suite B
San Luis Obispo, CA 93401
United States of America

Electrical Apparatus: **Series XP2i and XP2i-DD Digital Test Gauges**
Optional accessory:

Type of Protection: **Ex ia**

Marking: **IECEX CSA 05.0001X**
Ex ia IIC T4

*Approved for issue on behalf of the IECEx
Certification Body:* Joe Gryn

Position: Director, Conformity Assessment

Signature:
(for printed version)

Date:

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the [Official IECEx Website](http://www.iecex.com).

Certificate issued by:

CSA International
178 Rexdale Boulevard
Toronto, Ontario M9W 1R3
Canada
and
1707 - 94th Street
Edmonton, AB T6N 1E6
Canada





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Manufacturer: **Crystal Engineering Corp.**
720 Aerovista Place Suite B
San Luis Obispo, CA 93401
United States of America

Manufacturing location(s):

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended.

STANDARDS:

The electrical apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

IEC 60079-0 : 2004 Electrical apparatus for explosive gas atmospheres - Part 0: General requirements
Edition: 4.0

IEC 60079-11 : 2006 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition: 5

*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in

IECEX ATR:
CA/CSA/ExTR08.0004/00

File Reference:
187869-1596849



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

Series XP2i and XP2i-DD digital test gauges; Temperature Code T4; Maximum Working Pressure 10,000 PSI; Intrinsically Safe when powered by one of the following batteries (3-cells, AA, max 4.95V); • Rayovac Maximum Plus • Eveready (Energizer) E91 • Eveready (Energizer) EN91 • Duracell MN1500.
Note: Prefixes and Suffixes are added to denote pressure range and options.

CONDITIONS OF CERTIFICATION: YES as shown below:

- Only the batteries listed above may be used. • Batteries must be changed in an area known to be non-hazardous. • Serial interface must not be operated within a hazardous atmosphere.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

CA/CSA/ExTR08.0004/00 - CSA Project Number CA/CSA/08/TR187869-2032167 (1596849) - Update to include new enclosure details and modified electronics assembly. No changes to the IS protection of the equipment