



# 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](http://www.iecex.com)

Certificate No.: IECEx FTZU 12.0009X Issue No: 3 Certificate history:  
Status: **Current** Page 1 of 4 Issue No. 3 (2017-04-21)  
Date of Issue: **2017-04-21** Issue No. 2 (2016-11-02)  
Applicant: **Crystal Engineering Corporation** Issue No. 1 (2012-06-08)  
708 Fiero Lane, San Luis Obispo, CA Issue No. 0 (2012-04-30)  
**United States of America**  
Equipment: **Digital Test Gauge Model Series XP2i and XP2i-DD**  
*Optional accessory:*  
Type of Protection: **Intrinsic safety**  
Marking: Ex ia IIC T4/T3 Ga

Approved for issue on behalf of the IECEx  
Certification Body:

Dipl. Ing. Lukas Martinak

Position:

Head of Certification Body

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:

Fyzikálne technický zkusební ústav  
(Physical -Technical Testing Institute)  
Pikartská 7, 71607 Ostrava - Radvanice  
Czech Republic





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Manufacturer: **Crystal Engineering Corporation**  
708 Fiero Lane, San Luis Obispo, CA  
**United States of America**

Additional 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 : 2011** Explosive atmospheres - Part 0: General requirements  
Edition:6.0  
**IEC 60079-11 : 2011** Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"  
Edition:6.0

*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*

Test Report:

[CZ/FTZU/ExTR12.0009/00](#) [CZ/FTZU/ExTR12.0009/02](#) [CZ/FTZU/ExTR12.0009/03](#)

Quality Assessment Report:

[NL/DEK/QAR13.0030/02](#)



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## Schedule

### EQUIPMENT:

*Equipment and systems covered by this certificate are as follows:*

The equipment is designed to measure gauge or absolute pressure. The equipment's enclosure is made from aluminium alloy. The equipment contains one PCB with all electronic, it is powered by three alkaline cells size AA, which are placed in holder in separated compartment.

The equipment is produced in some variants which differs in displays (standard display, dual display), in location of port (standard, rear), type of port (standard, differential) and pressure range (differs pressure sensors).

Intrinsically safe parameters:  $U_m = 4.5V$

### SPECIFIC CONDITIONS OF USE: YES as shown below:

1. The equipment shall not be installed in a location where the external conditions are conducive to the build-up of electrostatic charge.
2. The equipment shall be installed in such a way, that even in the event of rare incidents, ignition sources due to impact and friction sparks shall be excluded.
3. Permissible cell types shall be only Rayovac Alkaline battery size AA, producer Rayovac Corporation and Energizer E91 size AA, producer Energizer Holdings Inc. - for temperature class T4,  
  
Energizer EN91 size AA, producer Energizer Holdings Inc. and Duracell MN1500, producer Duracell Batteries - for temperature class T3,
4.  $T_a: -20^{\circ}C \leq T_a \leq 50^{\circ}C$ ,



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

There are minor changes in schematic diagram and mechanical construction without any influence to current EPL.  
The technical parameters remain without changes.