



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

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

Certificate No.: **IECEX FTZU 23.0017X** Page 1 of 3 [Certificate history:](#)
Status: **Current** Issue No: 0
Date of Issue: **2023-09-27**
Applicant: **Crystal Engineering**
708 Fiero Lane Suite 9
San Luis Obispo, CA 93401
United States of America
Equipment: **Digital Test Gauge Model Series XP3i and XP3i-DD**
Optional accessory:
Type of Protection: **Intrinsic safety**
Marking: **Ex ia IIC T3...T4 Ga**

Approved for issue on behalf of the IECEx
Certification Body:

Dipl. Ing. Lukáš Martinák

Position:

Head of the Certification Body

Signature:
(for printed version)

Date:
(for printed version)

2023-09-27



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 www.iecex.com or use of this QR Code.



Certificate issued by:

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





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Page 2 of 3

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Manufacturer: **Crystal Engineering**
708 Fiero Lane Suite 9
San Luis Obispo, CA 93401
United States of America

Manufacturing
locations:

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 equipment 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 60079-0:2017](#) Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

[IEC 60079-11:2011](#) Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:6.0

This Certificate **does not** indicate compliance with 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/ExTR23.0017/00](#)

Quality Assessment Report:

[NL/DEK/QAR13.0030/05](#)





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Page 3 of 3

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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The equipment is composed of nickel plated aluminium enclosure, two PCBs with electronics and pressure sensing element. Front face has display and control buttons, on the back side of the equipment there is located USB connector for data transfer outside of the hazardous area. On the bottom there is fitting with piezo-resistive pressure sensing elements inside. It is powered by three primary AA cells 1.5V which are located inside the enclosure in the own compartment which separates them from the PCBs.

USB port: $U_m = 6\text{ V}$

SPECIFIC CONDITIONS OF USE: YES as shown below:

1. Enclosure of the XP3i and XP3i-DD is made of aluminium, if it is mounted in an area where the use of EPL Ga apparatus is required, it must be installed such that, even in the event of rare incidents, ignition sources due to impact and friction sparks are excluded.
2. To avoid sparking 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. Ambient temperature range and Temperature class depends on the type of the used cells:

Approved Cell Type	Ambient temperature	Temperature class
Rayovac 815	-20 to 50 °C	T3
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	-18 to 45 °C	
Varta 4906 Longlife Power	-10 to 45 °C	

