



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 10.0018X	Page 1 of 4	Certificate history:
Status:	Current	Issue No: 3	Issue 2 (2016-11-02) Issue 1 (2015-09-07) Issue 0 (2010-09-30)
Date of Issue:	2020-12-15		
Applicant:	Crystal Engineering Corporation 708 Fiero Lane San Luis Obispo California United States of America		
Equipment:	Digital Pressure Calibrator 30 Series, 90 Series		
Optional accessory:			
Type of Protection:	Intrinsic safety		
Marking:	Ex ia IIC T4 Gb		

Approved for issue on behalf of the IECEx
Certification Body:

Dipl. Ing. Lukáš Martinák

Position:

Head of the Certification Body

Signature:
(for printed version)

Lukáš Martinák

Date:

2020-12-15



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 zkušební 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
California
United States of America

Additional
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 Reports:

[CZ/FTZU/ExTR10.0018/00](#)
[CZ/FTZU/ExTR10.0018/03](#)

[CZ/FTZU/ExTR10.0018/01](#)

[CZ/FTZU/ExTR10.0018/02](#)

Quality Assessment Report:

[NL/DEK/QAR13.0030/04](#)





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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The 30 Series Digital Pressure Calibrators are portable, battery powered instruments designed to measure pressure in hazardous areas. Further the instruments are able to measure loop current signals by means of two jacks placed on the front panel. The apparatus comprises electronics circuits arranged on two printed circuit boards, an LCD module and one or two pressure sensor assemblies, all housed in an aluminium alloy enclosure. The battery which must be of type listed below is housed in a separate compartment.

Input/output parameters, front jacks:

$U_i = 30\text{ V}$; $I_i = 100\text{ mA}$; $P_i = 0.75\text{ W}$; $C_i = 0$; $L_i = 0$

$U_o = 9.9\text{ V}$; $I_o = 2.62\text{ mA}$; $P_o = 6.5\text{ mW}$; $C_o = 3.2\text{ }\mu\text{F}$; $L_o = 100\text{ }\mu\text{H}$

Instruction for use - see documents 4435 30 Series and 4466 TRANSCAT Model 92.

SPECIFIC CONDITIONS OF USE: YES as shown below:

Acceptable battery types:

Varta High Energy; 9 V; 4922 E Block; 6LR61; 6AM6; MN 1604

Duracell Pile Alkaline ; 9 V; MN 1604; 6L, R61

Energizer 9 V; Size 522, 6LR31.6AM6

Energizer Industrial Lithium 9 V; Format 522FP; 6LR31.6AM6

The battery must not be replaced in hazardous location.

RS 232 interface must not be connected to any apparatus when using calibrator in hazardous location.





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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Issue 3:

Marginal changes of documentation and construction.
Evaluation according to the newest standards.
Updated list of approved types of batteries.

