

### **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

Certifi Cate No.:

IECEx FTZU 10.0018X

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Certificate history:

Status:

Current

Issue No: 3

Issue 2 (2016-11-02) Issue 1 (2015-09-07)

Date of Issue:

Issue 0 (2010-09-30)

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:

Position:

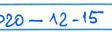
Signature: (for printed version)

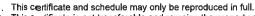
Date:

Dipl. Ing. Lukáš Martinák

Head of the Certification Body

2020 - 12-15





This certificate is not transferable and remains the property of the issuing body.

The Status and authenticity of this certificate may be verified by visiting www.iecex.com or use of this QR Code.



Certificate issued by:

Fyzikalne technicky zkusebni ustav (Physical -Technical Testing Institute) Pikartska 7, 71607 Ostrava - Radvanice Czec h 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 he 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.

