



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 SIR 15.0081X issue No.:0 Certificate history:

Status: **Current**

Date of Issue: **2016-05-03** Page 1 of 4

Applicant: **VPG Transducers**
5, Hanapach Street,
P.O. Box no. 6424,
20100
Carmiel
Israel

Electrical Apparatus: **Single Point load cells, models 1022, 1033, 1042, 1130, 1142, 1242, 1252, 1260, 1263, 1265, 1320.**
Optional accessory:

Type of Protection: **Intrinsically Safe**

Marking: Ex ia IIC T4 Ga
Ex ia IIIC T135°C Da
Ta = -20°C ≤ Ta ≤ +70°C

Approved for issue on behalf of the IECEx Certification Body: A C Smith

Position: Certification Manager

Signature:
(for printed version)

Date:

2016-05-03

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:

SIRA Certification Service
CSA Group
Unit 6, Hawarden Industrial Park
Hawarden
Deeside
CH5 3US
United Kingdom

sira
CERTIFICATION





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Manufacturer: **VPG Transducers**
5, Hanapach Street,
P.O. Box no. 6424,
20100
Carmiel
Israel

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:
[GB/SIR/ExTR15.0286/00](#)

Quality Assessment Report:
[GB/SIR/QAR16.0007/00](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The load cells are housed in a metal enclosure. The type of strain gauge(s) and shape and size of the enclosure are varied to suit the capacity. The load cells are Single Point Bending Beam, models 1022, 1033, 1042, 1130, 1142, 1242, 1252, 1260, 1263, 1265 and 1320.

The encapsulated strain gauges are fixed to the load cell.

A 20 m maximum flying lead provides connection to an intrinsically safe supply.

The equipment has the following entity parameters:

Ex ia IIC T4 Ga

U_i = 24 V I_i = 384 mA P_i = 1.1 W C_i = 16 nF L_i = 25 μH

Ex ia IIIC T135°C Da

U_i = 24 V I_i = 250 mA P_i = 650 mW C_i = 16 nF L_i = 25 μH

CONDITIONS OF CERTIFICATION: YES as shown below:

1. Under certain extreme circumstances, the non-metallic parts incorporated in the enclosure of this equipment may generate an ignition-capable level of electrostatic charge. Therefore the equipment shall not be installed in a location where the external conditions are conducive to the build-up of electrostatic charge on such surfaces. In addition, the equipment shall only be cleaned with a damp cloth
2. For models 1022, 1033, 1042, 1242, 1252, 1260, 1263, 1265, 1320 the enclosure materials require the apparatus shall be protected from impact and friction sparks. This shall be considered during installation.



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EQUIPMENT(continued):

Conditions of manufacture

The Manufacturer shall comply with the following:

1. The load cell shall be inspected to ensure adherence of the encapsulation material to the metallic base.
2. Each manufactured sample of the load cell shall be subjected to an electric strength test using a test voltage of 500 Vac applied between the strain gauge connections and metallic base. There shall be no evidence of flashover or breakdown and the maximum current flowing shall not exceed 5 mA.