



1 **EC TYPE-EXAMINATION CERTIFICATE**

2 Equipment intended for use in Potentially Explosive Atmospheres Directive 94/9/EC

3 Certificate Number: **Sira 15ATEX2220X** Issue: **0**

4 Equipment: **Single Point load cells, models 1022, 1033, 1042, 1130, 1142, 1242, 1252, 1260, 1263, 1265, 1320.**

5 Applicant: **VPG Transducers**

6 Address: **5, Hanapach Street,
P.O. Box no. 6424,
20100
Carmiel.
Israel** (These products may be manufactured at any VPG Transducers Facility listed on Quality Assurance Notification SIRA 04 ATEX M297 that has been audited for the manufacture of the type of protection listed)

7 This equipment and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

8 Sira Certification Service, notified body number 0518 in accordance with Article 9 of Directive 94/9/EC of 23 March 1994, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in the confidential reports listed in Section 14.2.

9 Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the schedule to this certificate, has been assured by compliance with the following documents:

EN 60079-0:2012/A11:2013 EN 60079-11:2012

The above list of documents may detail standards that do not appear on the UKAS Scope of Accreditation, but have been added through Sira's flexible scope of accreditation, which is available on request.


10 If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this certificate.

11 This EC type-examination certificate relates only to the design and construction of the specified equipment. If applicable, further requirements of this Directive apply to the manufacture and supply of this equipment.

12 The marking of the equipment shall include the following:



II 1GD
Ex ia IIC T4 Ga
Ex ia IIIC T135°C Da
Ta = -20°C ≤ Ta ≤ +70°C



Project Number 70034703

A C Smith
Certification Manager

This certificate and its schedules may only be reproduced in its entirety and without change.

Sira Certification Service
Unit 6, Hawarden Industrial Park,
Hawarden, CH5 3US, United Kingdom



SCHEDULE

EC TYPE-EXAMINATION CERTIFICATE

Sira 15ATEX2220X
Issue 0

13 DESCRIPTION OF EQUIPMENT

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				
Ui = 24 V	li = 384 mA	Pi = 1.1 W	Ci = 16 nF	Li = 25 µH
Ex ia IIIC T135°C Da				
Ui = 24 V	li = 250 mA	Pi = 650 mW	Ci = 16 nF	Li = 25 µH

14 DESCRIPTIVE DOCUMENTS

14.1 Drawings

Refer to Certificate Annexe.

14.2 Associated Sira Reports and Certificate History

Issue	Date	Report number	Comment
0	28 October 2015	R70034703A	The release of the prime certificate.

15 SPECIAL CONDITIONS FOR SAFE USE (denoted by X after the certificate number)

15.1 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.

15.2 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.

16 ESSENTIAL HEALTH AND SAFETY REQUIREMENTS OF ANNEX II (EHSRs)

The relevant EHSRs that are not addressed by the standards listed in this certificate have been identified and individually assessed in the reports listed in Section 14.2.

17 CONDITIONS OF CERTIFICATION

17.1 The use of this certificate is subject to the Regulations Applicable to Holders of Sira Certificates.

17.2 Holders of EC type-examination certificates are required to comply with the production control requirements defined in Article 8 of directive 94/9/EC.

17.3 The load cell shall be inspected to ensure adherence of the encapsulation material to the metallic base.

17.4 Each manufactured 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.

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Unit 6, Hawarden Industrial Park,
Hawarden, CH5 3US, United Kingdom

Tel: +44 (0) 1244 670 900
Fax: +44 (0) 1244 539 301
Email: ukinfo@csagroup.org
Web: www.csagroupuk.org

Certificate Annexe



Certificate Number: Sira 15ATEX2220X

Equipment: Single Point load cells, models 1022, 1033, 1042, 1130, 1142, 1242, 1252, 1260, 1263, 1265, 1320.

Applicant: VPG Transducers

Issue 0

Drawing no.	Sheets	Rev.	Date (Sira stamp)	Title
1130.000.00	1 to 3	A	25 Aug 15	Model 1130 ATEX All Capacities
LABEL-1130-02	1 of 1	0	16-Oct-15	ATEX Label
1033.000.00	1 to 3	A	25 Aug 15	General Assembly/Wiring Scheme/Wiring Scheme
1142.000.00	1 to 3	A	25 Aug 15	General Assembly/Wiring Scheme/Wiring Scheme
1252.000.00	1 to 3	A	25 Aug 15	General Assembly/Wiring Scheme/Wiring Scheme
1260.000.00	1 to 3	A	25 Aug 15	General Assembly/Wiring Scheme/Wiring Scheme (High Cable Exit)
1260.000.01	1 to 3	A	25 Aug 15	General Assembly/Wiring Scheme/Wiring Scheme (Side Cable Exit)
ATEX1320	1 to 3	A	25 Aug 15	ATEX Drawing
1265.000.00	1 to 3	A	25 Aug 15	General Assembly/Wiring Scheme/Wiring Scheme
ATEX1022-1	1 to 3	A	25 Aug 15	ATEX Drawing
ATEX1022-2	1 to 3	A	25 Aug 15	ATEX Drawing for SYMMETRIC
ATEX 1042 (double bonding)	1 to 3	A	25 Aug 15	Model 1042 ATEX All Capacity
ATEX 1042 (single bonding)	1 to 3	A	25 Aug 15	Model 1042 ATEX All Capacity
ATEX 1242	1 to 3	A	25 Aug 15	Model 1242 ATEX All Capacity
ATEX 1263	1 to 3	A	25 Aug 15	Model 1263 ATEX All Capacity

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