sira
Certification Service

1 **EC TYPE-EXAMINATION CERTIFICATE**

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

3 Certificate Number: Sira 04ATEX2107X

4 Equipment: Model 1250 Load Cell

5 Applicant: Vishay Israel Transducers

6 Address: 5a Hazoran Street
PO Box 8381
New Industrial Zone
Netanya 42506
Israel

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 confidential report number R52V11646A.

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 50014:1997 + Amds 1 & 2
EN 50020:1994
EN 50284:1999
EN 50281-1-1:1998

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:

Ex II 1 GD T85°C EEx ia IIC T6 (Tamb –20°C to +40°C) see schedule
II 1 GD T115°C EEx ia IIC T4 (Tamb –20°C to +70°C) see schedule

Project Number 52V11646
Date 18 March 2004
Re-issued 26 April 2004
C. Index 13

C Ellaby
Certification Officer

ST&C(Chester) Form 9176 Issue 9

Sira Certification Service
Rake Lane, Eccleston, Chester, CH4 9JN, England
Tel: +44 (0) 1244 670900 Fax: +44 (0) 1244 681330
Email: exhazard@siratc.co.uk
Sira Certification Service is a service of Sira Test & Certification Ltd

SCHEDULE

EC TYPE-EXAMINATION CERTIFICATE

Sira 04ATEX2107X

Re-issued 26 April 2004 to replace original certificate that was lost in transit.

13 **DESCRIPTION OF EQUIPMENT**

The **Model 1250 Load Cells** is designed to produce an electrical signal proportional to mechanical load. The load cell consists of strain gauge elements, compensating resistors and an encapsulated printed circuit board all housed within a metal enclosure fitted with an integral cable for external connections.

Input Parameters

Ui (V)	Ii (A)	Pi (W)	Tamb (°C)	Maximum surface temp. in dust (°C)	T Class
22	0.320	1.25	40	85	T6
22	0.469	1.25	70	115	T4
18	0.160	1.50	70	115	T4
17	0.110	1.80	70	115	T4
13	0.483	2.00	40	85	T6
24	0.483	2.00	70	115	T4
24	0.483	2.00	40	85	T6

Ci = 19.5 nF Li = 18 ìH

14 **DESCRIPTIVE DOCUMENTS**

14.1

Drawing No.	Sheet	Rev.	Date	Description
2AU003	1 of 1	2	Aug 02	Outline Dimensions
2AU004	1 of 1	3	Jan 03	Component Details and Wiring Schematic
2AU005	1 of 1	5	Mar 04	Label

14.2 Report No. R52V11646A

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

15.1 When the screen of the integral cable is connected to the apparatus enclosure, the apparatus enclosure will not withstand the 500 V rms specified in the standards, this must be taken into account during installation.

15.2 The apparatus may have exposed light metal parts, which may constitute a risk of ignition due to impact or friction. This must be taken into account 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 Report No. R52V11646A.

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 Each completed sample of the 1250 Load Cell shall be subjected to and pass an insulation test of 500 V rms. Any inputs shall be connected together and a test voltage shall be applied between them and the enclosure or frame. The test procedure shall be in accordance with clause 10.6 of EN 50020:1994.

Date 18 March 2004
Re-issued 26 April 2004

Sira Certification Service
Rake Lane, Eccleston, Chester, CH4 9JN, England
Tel: +44 (0) 1244 670900 Fax: +44 (0) 1244 681330
Email: exhazard@siratc.co.uk
Sira Certification Service is a service of Sira Test & Certification Ltd