



1 **EC TYPE-EXAMINATION CERTIFICATE**

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

3 Certificate Number: **Sira 11ATEX2320X** Issue: **0**

4 Equipment: **T34 Load Cells**

5 Applicant: **Thames Side Sensors Limited**

6 Address: **Unit 10  
io Trade Centre  
Deacon Way  
Reading RG30 6AZ  
UK**

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 60079-0:2009

EN 60079-11:2007

EN 60079-31:2009

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 1G D

Ex ia IIC T4..T6 Ga

Ex ia IIIC T135°C .. T85°C Da

Ex ta IIIC T85°C Da

D R Stubbings BA MIET  
Certification Manager

Project Number 26216

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**SCHEDULE**

**EC TYPE-EXAMINATION CERTIFICATE**

Sira 11ATEX2320X  
Issue 0

**13 DESCRIPTION OF EQUIPMENT**

Strain gauge load cells that include a permanent cable mounted by the manufacturer with a maximum length of 20 m.

**Rated Characteristics**

Nominal Voltage Supply	10 V dc
Maximum Voltage Supply	22 V (ac or dc)
Maximum Voltage Supply when marked "Ex ta"	25 V
Input resistance	800±100Ω
Output resistance	700±Ω
Rated load	15, 20, 25, 30, 40, 60, 100, 200, 300, 400, 500, 600, 800, 900 and 1000 t
Temperature Class	Specific parameters
T4	Pi: 1.3 W
T5	Pi: 0.6 W
T6	Pi: 0.2 W

**14 DESCRIPTIVE DOCUMENTS**

**14.1 Drawings**

Refer to Certificate Annexe.

**14.2 Associated Sira Reports and Certificate History**

Issue	Date	Report number	Comment
0	03 February 2012	R26216A/00	The release of prime certificate.

14.3 Certificate number LOM 03ATEX2027X last dated 21 December 2010

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

15.1 When load cells are used with a mode of protection by enclosure "Ex ta" the cable and the same cells must be mechanically protected. The power supply of the load cells must be fitted with a fuse of up to 1 A according to IEC 60127 with a breaking capacity not less than 10 kA.

**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.

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# Certificate Annexe

Certificate Number: Sira 11ATEX1234X

Equipment:

Applicant:

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## Issue 0

Drawing No.	Sheets	Rev.	Date (Sira stamp)	Title
A3/SK/20216	1 of 1	A	12 Dec 11	Labelling T34 Load Cell

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