



1 **EU-TYPE EXAMINATION CERTIFICATE**

2 Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

3 Certificate Number: **Sira 16ATEX2108X** Issue: **3**

4 Equipment: **Loadcell WNI-ATEX/ WLS-ATEX/ LP-ATEX/TIMH-ATEX**

5 Applicant: **Straightpoint**

6 Address: **Unit 9, Dakota Park
Downley Road
Havant, PO9 2NJ
UK**

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

8 CSA Group Netherlands B.V., notified body number 2813 in accordance with Articles 17 and 21 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, 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 IEC 60079-0:2018

EN 60079-11:2012

10 If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to Specific Conditions of Use identified in the schedule to this certificate.

11 This EU-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

Ex ia IIC T4 Ga

Ta = -10°C to +50°C

Project Number 80060438

Signed: J A May

Title: Director of Operations

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CSA Group Netherlands B.V.
Utrechtseweg 310,
6812 AR, Arnhem,
Netherlands



SCHEDULE

EU-TYPE EXAMINATION CERTIFICATE

Sira 16ATEX2108X
Issue 3

13 DESCRIPTION OF EQUIPMENT

The Loadcell WNI-ATEX/ WLS-ATEX/ LP-ATEX/ TIMH-ATEX is a radio telemetry system designed to provide measurement data from voltage, current and strain gauge inputs. The Loadcell is powered from four, Energizer Ultimate Lithium Cells. The equipment comprises of a radio module PCB and an additional PCB consisting of the safety critical components which are fully encapsulated. It also contains the antenna PCB which is partially encapsulated. The electronics and the battery box are contained within an aluminium enclosure. In the WLS-ATEX model, this electronics box is attached to a shackle pin made of alloy steel which contains the encapsulated strain gauges. In the WNI-ATEX model, the electronics box is attached to a load cell core made of stainless steel and aluminium material which contains the encapsulated strain gauges. In the LP-ATEX model, the electronics box is attached to a load pin made of stainless steel material which contains the encapsulated strain gauges. In the TIMH-ATEX model, the electronics box is attached to a load pin which contains the encapsulated strain gauges and side plates made of stainless steel. There are no external connectors in this equipment.

Variation 1 - This variation introduced the following changes:

- i. New radio board introduced which has changed some drawings as a result.
- ii. The drawings which represent the old design have been reproduced in new drawings.
- iii. Changes in the marking label to show the new Crosby Straightpoint logo.
- iv. Following appropriate assessment to demonstrate compliance with the latest technical knowledge, EN 60079-0:2012/A11:2013 was replaced by EN IEC 60079-0:2018.

Variation 1 - This variation introduced the following changes:

- i. Typographical errors corrected on the drawings.
- ii. ATEX certificate number of the L91 batteries removed from the drawings.
- iii. Non-hazardous area bill of material amendments and corrections.

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 April 2016	R70061934A	The release of the prime certificate.
1	15 October 2019	1350	Transfer of certificate Sira 16ATEX2108X from Sira Certification Service to CSA Group Netherlands B.V.
2	20 April 2020	R80030551B	The introduction of Variation 1.
3	09 December 2020	R80060438A	The introduction of Variation 2.

15 SPECIFIC CONDITIONS OF USE (denoted by X after the certificate number)

- 15.1 The enclosure is manufactured from aluminium. In rare cases, ignition sources due to impact and friction sparks could occur. This shall be considered during installation.
- 15.2 The anti-electrostatic coating on the labels can be adversely affected by contact with solvents. Suitable precaution shall be taken to avoid such instances and the labels shall be inspected periodically for any damage.



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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

Certificate Annexe



Certificate Number: Sira 16ATEX2108X

Equipment: Loadcell WNI-ATEX/ WLS-ATEX/ LP-ATEX/TIMH-ATEX

Applicant: Straightpoint

Issue 0

Drawing no.	Sheets	Rev.	Date (Sira stamp)	Description
AT005	1 of 1	C	4-Apr-16	Encapsulation drawing electronics box
AT006	1 of 1	B	4-Apr-16	General Assembly drawing
AT007	1 of 1	D	4-Apr-16	Encapsulation loadcell
AT008	1 of 1	A	26-Apr-16	TIMH GA drawing
SU3484 Schematic	1 of 1	1.2	4-Apr-16	Battery Protection PCB Schematic
SU3484 PCB	1 of 1	B	4-Apr-16	Battery Protection PCB layout
SU3484 BOM	1 of 1	1.1	4-Apr-16	Battery Protection PCB BOM
SA900 Logical Schematic	1 of 1	1.3	4-Apr-16	Logical schematic
SA900 Electronic Schematic	1 of 1	1.3	4-Apr-16	Electronic schematic
SD4119	1 of 1	0	4-Apr-16	Battery Box
SU3488	1 of 1	A	4-Apr-16	Calibration Label
SU3497 PCB	1 of 1	A	4-Apr-16	Loadcell Negative PCB layout
SU3497 Schematic	1 of 1	1.2	4-Apr-16	Loadcell Negative PCB Schematic
SU3498 PCB	1 of 1	A	4-Apr-16	Loadcell Positive PCB layout
SU3498 Schematic	1 of 1	1.2	4-Apr-16	Loadcell Positive PCB Schematic
SU3587	1 of 1	A	4-Apr-16	Battery Housing Assembly
SU3571	1 of 1	A	4-Apr-16	Electronics Box label
SU3585	1 of 1	C	4-Apr-16	Marking Label

Issue 1. No new drawings were issued.

Issue 2

Drawing no.	Sheets	Rev.	Date (Sira stamp)	Description
AT005	1 of 1	E	09 Mar 20	Encapsulation drawing electronics box (TS radio board)
AT006	1 of 1	D	09 Mar 20	General Assembly drawing (TS radio board)
SU3587	1 of 1	C	09 Mar 20	Battery Housing Assembly (TS radio board)
SU3585	1 of 1	D	09 Mar 20	Marking Label
SU3488	1 of 1	B	09 Mar 20	Calibration Label
AT015(*)	1 of 1	A	30 Mar 20	Encapsulation drawing electronics box (T24 radio board)
AT016(*)	1 of 1	A	30 Mar 20	General Assembly drawing (T24 radio board)
AT019(*)	1 of 1	A	30 Mar 20	Battery Housing Assembly (T24 radio board)

note) * - new drawings

The drawing listed below are no longer necessary.

Drawing no.	Sheets	Rev.	Date (Sira stamp)	Reason
SD4119	1 of 1	0	24-Sep-2015	All dimensions moved to SU3587.

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Certificate Annexe



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Applicant: Straightpoint

Issue 3

Drawing no.	Sheets	Rev.	Date (Sira stamp)	Description
AT006	1 of 1	E	24-Nov-20	SA700-General Assembly drawing (TS Radio board) & SA700-General Assembly drawing (T24 Radio board)
AT016	1 of 1	B	24-Nov-20	SA700-General Assembly drawing (TS Radio board) & SA700-General Assembly drawing (T24 Radio board)

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