



UNITED KINGDOM CONFORMITY ASSESSMENT

1 **UK TYPE EXAMINATION CERTIFICATE**

2 Equipment or Protective System Intended for use in Potentially Explosive Atmospheres
UKSI 2016:1107 (as amended) – Schedule 3A, Part 1

3 Certificate Number: **CSAE 22UKEX1266X** Issue: **0**

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

5 Manufacturer: **Straightpoint UK Ltd.**

6 Address: **123 Proxima Park,
Houghton Avenue,
Waterlooville,
PO7 3DU,
UK**

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

8 CSA Group Testing UK Limited, Approved Body number 0518, in accordance with Regulation 42 of the Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres Regulations 2016, UKSI 2016:1107 (as amended), certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Schedule 1 of the Regulations. 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 has been assured by compliance with:


EN IEC 60079-0:2018 EN 60079-11:2012

Except in respect of those requirements listed at Section 16 of the schedule to this certificate. The above standards may not appear on the UKAS Scope of Accreditation, but have been added through flexible scope of accreditation, which is available on request.

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

11 This UK TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified product. Further requirements of the Regulations apply to the manufacturing process and supply of this product. These are not covered by this certificate.

12 The marking of this product shall be in accordance with Regulation 41 and include the following:

 II 1G
Ex ia IIC T4 Ga
Ta = -10°C to +50°C

Name: Michelle Halliwell
Title: Director of Operations



SCHEDULE

UK TYPE EXAMINATION CERTIFICATE

**CSAE 22UKEX1266X
Issue 0**

13 DESCRIPTION OF PRODUCT

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, ATEX certified Energiser Ultimate L91 AA 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.

14 DESCRIPTIVE DOCUMENTS

14.1 Drawings

Refer to Certificate Annexe.

14.2 Associated Reports and Certificate History

Issue	Date	Report number	Comment
0	25 November 2022	R80116062A	The release of the prime certificate.

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.
- 15.3 Only Energizer Ultimate Lithium Cells Type L91 AA, certificate number Baseefa14ATEX0107U shall be fitted.

16 ESSENTIAL HEALTH AND SAFETY REQUIREMENTS (REGULATIONS SCHEDULE 1)

In addition to the Essential Health and Safety Requirements covered by the standards listed in Section 9, all other requirements are demonstrated in the relevant reports.

17 PRODUCTION CONTROL

- 17.1 Holders of this certificate are required to comply with production control requirements defined in Schedule 3A, as applicable, and CSA Group Testing UK Regulations for Certificate Holders.
- 17.2 Only Energizer Ultimate Lithium Cells Type L91 AA, certificate number Baseefa14ATEX0107U shall be fitted. It is therefore the responsibility of the manufacturer to continually monitor the status of the certification associated with this device. The manufacturer shall inform CSA Sira of any modifications to the device that may impinge upon the explosion safety design of the equipment.

Certificate Annexe

Certificate Number: CSAE 22UKEX1266X
 Product: Loadcell WNI -ATEX/ WLS-ATEX/ LP-ATEX/TIMH-ATEX
 Manufacturer: Straightpoint UK Ltd.

Issue 0

Drawing	Sheets	Rev.	Date (Stamp)	Title
AT007	1 of 1	D	04-Apr-16	Encapsulation loadcell
AT008	1 of 1	A	26-Apr-16	TIMH GA drawing
SU3484 Schematic	1 of 1	1.2	04-Apr-16	Battery Protection PCB Schematic
SU3484 PCB	1 of 1	B	04-Apr-16	Battery Protection PCB layout
SU3484 BOM	1 of 1	1.1	04-Apr-16	Battery Protection PCB BOM
SA900 Logical Schematic	1 of 1	1.3	04-Apr-16	Logical schematic
SA900 Electronic Schematic	1 of 1	1.3	04-Apr-16	Electronic schematic
SU3497 PCB	1 of 1	A	04-Apr-16	Loadcell Negative PCB layout
SU3497 Schematic	1 of 1	1.2	04-Apr-16	Loadcell Negative PCB Schematic
SU3498 PCB	1 of 1	A	04-Apr-16	Loadcell Positive PCB layout
SU3498 Schematic	1 of 1	1.2	04-Apr-16	Loadcell Positive PCB Schematic
SU3571	1 of 1	A	04-Apr-16	Electronics Box label
AT005	1 of 1	E	09-Mar-20	Encapsulation drawing electronics box (TS radio board)
SU3587	1 of 1	C	09-Mar-20	Battery Housing Assembly (TS radio board)
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)
AT019	1 of 1	A	30-Mar-20	Battery Housing Assembly (T24 radio board)
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)
SU3585	1of1	G	24 Nov-22	SA700 battery cover disc label