1 **EU-TYPE EXAMINATION CERTIFICATE**

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

3 Certificate Number: **Sira 19ATEX2046X** Issue: **3**

4 Equipment: **9W3200 Battery Pack**

5 Applicant: **Detectronic Limited**

6 Address: Ground Floor
16 Lindred Road
Lomeshaye Industrial Estate
Nelson
Lancashire BB9 5SR
United Kingdom

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 IIB T4 Ga
Ta = -40°C to +60°C

Signed: M Halliwell

Title: Director of Operations

PRODUCTS RvA C 652

SCHEDULE

EU-TYPE EXAMINATION CERTIFICATE **Sira 19ATEX2046X**
Issue 3

13 DESCRIPTION OF EQUIPMENT

9W3200 Battery Pack is an intrinsically safe rechargeable battery pack with a flying lead terminating in a socket which is designed to connect to a mating plug on another suitably certified intrinsically safe device, typically a data logger. When the 9W3200 is in the non-hazardous area, the same connector can be used to connect to a charger, the charging connector itself being protected by triplicated series diodes.

The battery pack consists of three Saft '3s1p INT 176065 ise CCS' 4.2V, Lithium ion cells in series to produce an output of 12.6V peak, the current being limited to an intrinsically safe value by means of a resistor. The battery pack constitutes of a PCB containing a number of safety critical components, the three cells and their protection PCBs mounted on top of the cells. They are completely encapsulated inside a plastic enclosure.

The 9W3200 is designed to be charged by means of a charger specifically designed for lithium-ion cells, with a maximum charging voltage of 12.6V and a maximum charging current of 3A.
Um at the charging terminal = 12.6V.

The 9W3200 has the following safety description:

Uo = 12.6V	Io = 2.708A	Po = 6.142W	Ci = 0
Co = 7.4µF	Li = 0	Lo = 19µH	

Variation 1 - This variation introduced the following change:

i. Correction on drawing C9W5210 to change approval text.

Variation 2 - This variation introduced the following change:

i. Change of Applicant address as follows:

From:	**To:**
Regent Street	Ground Floor, 16 Lindred Road
Whitewalls Ind. Est.	Lomeshaye Industrial Estate
Colne, Lancashire	Nelson
BB8 8LJ	Lancashire BB9 5SR
UK	United Kingdom

14 DESCRIPTIVE DOCUMENTS

14.1 Drawings

Refer to Certificate Annexe.

14.2 Associated Reports and Certificate History

Issue	Date	Report number	Comment
0	01 March 2019	R70215084A	The release of prime certificate.
1	01 April 2019	R70220067A	The introduction of Variation 1.
2	15 October 2019	4119	Transfer of certificate Sira 19ATEX2046X from Sira Certification Service to CSA Group Netherlands B.V.

SCHEDULE

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Issue 3

Issue	Date	Report number	Comment
3	06 December 2024	R80224261A	This Issue covers the following changes: • The Issue dates in the Certificate History were corrected. • The introduction of Variation 2.

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

15.1 Under certain extreme circumstances, exposed plastic and unearthed metal parts of the enclosure may store an ignition-capable level of electrostatic charge. Therefore, the user/installer shall implement precautions to prevent the build-up of electrostatic charge, e.g. locate the equipment where a charge-generating mechanism is unlikely to be present and clean with a damp cloth. The capacitance of the metallic cover was determined as 21pF.

15.2 While charging the 9W3200 battery pack in non-hazardous area, it shall be supplied with a maximum charging voltage of 12.6V and maximum charging current of 3A, that is

- Powered from a SELV or PELV system or
- Powered via a safety isolating transformer complying with the requirements of IEC 61558-2-6 or technically equivalent standard, or
- Directly connected to apparatus complying with IEC 60950, IEC 61010-1 or a technically equivalent standard, or
- Fed directly from cells of batteries.

The ambient temperature during charging shall be in the range of -30°C to +85°C.

15.3 When the battery pack is installed in a portable equipment, a drop test shall be considered under the assessment of the complete portable equipment.

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 MANUFACTURE**

17.1 The use of this certificate is subject to the Regulations Applicable to Holders of CSA Group Netherlands B.V. certificates.

17.2 Holders of EU-Type Examination Certificates are required to comply with the conformity to type requirements defined in Article 13 of Directive 2014/34/EU.

Certificate Annexe

Certificate Number: **Sira 19ATEX2046X**

Equipment: **9W3200 Battery Pack**

Applicant: **Detectronic Limited**

Issue 0

Drawing	Sheets	Rev	Date (Sira stamp)	Title
C9W5210	1 of 1	A	12 Feb 19	9W3200 battery pack, I.S (ATEX & IECEx) trade agent (Detectronic) marking requirements

Issue 1

Drawing	Sheets	Rev.	Date (Sira stamp)	Title
C9W5210	1 of 1	B	26 Mar 19	9W3200 battery pack, I.S (ATEX & IECEx) trade agent (Detectronic) marking requirements

Issue 2 – No new drawings were introduced.

Issue 3 – No new drawings were introduced.