



1 **EU-TYPE EXAMINATION CERTIFICATE**

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

3 Certificate Number: **Sira 08ATEX2229X** Issue: **4**

4 Equipment: **9W3000 Battery Pack**

5 Applicant: **Detectronic Limited**

6 Address: Regent Street
Whitewalls Industrial Estate
Colne
Lancashire BB8 8LJ
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 60079-0:2006 EN 60079-11:2007 EN 60079-26:2007
IEC 60079-0:2007 was used for reference to the marking

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 1 G
Ga Ex ia IIB T4; T_a = -40°C to +60°C

Project Number 0612

Signed: 
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 08ATEX2229X
Issue 4**

13 DESCRIPTION OF EQUIPMENT

The 9W3000 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 9W3000 is in the non-hazardous area, the same connector can be used to connect it to a charger, the charging connector itself being protected by triplicated series diodes.

The 9W3000 battery pack contains three Saft MP 174865 IS 4.2 V, 4.8 Ah 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. There is a single printed circuit board containing a number of safety components, which are encapsulated along with the three cells into a plastic enclosure.

The 9W3000 is designed to be charged by means of a charger specifically designed for lithium-ion cells, with a maximum charging voltage of 12.6 V and a maximum charging current of 3 A. The 9W3000 has the following safety description:

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

Variation 1 - This variation introduced the following changes:

- i. The use of a slightly larger enclosure was endorsed.
- ii. A metal or plastic backing plate was allowed to be fitted.

Variation 2 - This variation introduced the following change:

- i. The Applicants address was changed from 1 Turner Road, Lomeshaye Industrial Estate, Nelson, Lancashire BB9 7DR, to Regent Street, Whitewalls Industrial Estate, Colne, Lancashire BB8 8LJ.

Variation 3 - This variation introduced the following changes:

- i. Allow three new alternative potting compounds to be used in the 9W3000 battery pack.
- ii. The use of a slightly larger enclosure was endorsed.
- iii. The documents previously listed, EN 60079-11:2006 and EN 60079-26:2006 have been replaced by EN 60079-11:2007 and EN 60079-26:2007 as they were correct.

14 DESCRIPTIVE DOCUMENTS

14.1 Drawings

Refer to Certificate Annexe.

14.2 Associated Sira Reports and Certificate History

Issue	Date	Report No.	Comment
0	20 October 2008	R52A18900A	The release of the prime certificate.
1	3 April 2009	R52L20025A	The introduction of Variation 1.
2	10 February 2014	R33062A/00	The introduction of Variation 2.



SCHEDULE

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Issue	Date	Report No.	Comment
3	22 January 2018	R70161950B	EC-Type Examination Certificate in accordance with 94/9/EC updated to EU-Type Examination Certificate in accordance with Directive 2014/34/EU. <i>(In accordance with Article 41 of Directive 2014/34/EU, EC-Type Examination Certificates referring to 94/9/EC that were in existence prior to the date of application of 2014/34/EU (20 April 2016) may be referenced as if they were issued in accordance with Directive 2014/34/EU. Variations to such EC-Type Examination Certificates may continue to bear the original certificate number issued prior to 20 April 2016.)]</i> The introduction of Variation 3.
4	15 October 2019	0612	<ul style="list-style-type: none">Transfer of certificate Sira 08ATEX2229X from Sira Certification Service to CSA Group Netherlands B.V..

14.3 Certificate number Sira 08ATEX2189X Issue 3.

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

15.1 Under certain extreme circumstances, the non-metallic enclosure may generate an ignition-capable level of electrostatic charge. Therefore the equipment shall not be installed in a location where the external conditions are conducive to the build-up of electrostatic charge on such surfaces. This is particularly important if the equipment is installed in a zone 0 location. In addition, the equipment shall only be cleaned with a damp cloth.

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 08ATEX2229X
Equipment: 9W3000 Battery Pack
Applicant: Detectronic Limited

Issues 0 and 1

Drawing No.	Sheet	Rev.	Date	Description
C9W5011	1 of 1	A	11 Sep 08	Label

Issue 2

Drawing No.	Sheet	Rev.	Date (Sira stamp)	Description
C9W5013	1 of 1	A	10 Feb 14	Label

Issue 3

Drawing	Sheets	Rev.	Date (Sira stamp)	Title
C9W5013	1 to 3	B	22 Jan 18	ATEX and IECEx marking

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