



# IECEX Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit [www.iecex.com](http://www.iecex.com)

Certificate No.: **IECEX SIR 08.0092X** issue No.:3

Status: **Current**

Date of Issue: **2018-01-22** Page 1 of 4

Certificate history:  
Issue No. 3 (2018-1-22)  
Issue No. 2 (2014-2-26)  
Issue No. 1 (2009-4-8)  
Issue No. 0 (2008-11-3)

Applicant: **Detectronic Limited**  
Regent Street  
Whitewalls Industrial Estate  
Colne  
Lancashire BB8 8LJ  
United Kingdom

Equipment: **Battery Pack 9W3000**  
Optional accessory:

Type of Protection: **Intrinsic Safety**

Marking: **Ga Ex ia IIB T4; Ta = -40°C to +60°C**

Approved for issue on behalf of the IECEx Certification Body: **R A Craig**

Position: **Certification Support Officer**

Signature:  
(for printed version)

Date: **2018-01-22**

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the [Official IECEx Website](http://www.iecex.com).

Certificate issued by:  
**SIRA Certification Service**  
CSA Group  
Unit 6, Hawarden Industrial Park  
Hawarden, Deeside, CH5 3US  
United Kingdom





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Manufacturer: **Detectronic Limited**  
Regent Street,  
Whitewalls Industrial Estate,  
Colne,  
Lancashire BB8 8LJ,  
**United Kingdom**

Additional Manufacturing location(s):

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended.

#### STANDARDS:

The electrical apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

<b>IEC 60079-0 : 2004</b> Edition: 4.0	Electrical apparatus for explosive gas atmospheres - Part 0: General requirements
<b>IEC 60079-0 : 2007-10</b> Edition: 5	Explosive atmospheres - Part 0: Equipment - General requirements
<b>IEC 60079-11 : 2006</b> Edition: 5	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
<b>IEC 60079-26 : 2006</b> Edition: 2	Explosive atmospheres - Part 26: Equipment with equipment protection level (EPL) Ga

*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*

#### TEST & ASSESSMENT REPORTS:

*A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in*

#### Test Report:

GB/SIR/ExTR08.0131/00  
GB/SIR/ExTR18.0011/00

GB/SIR/ExTR09.0047/00

GB/SIR/ExTR14.0030/00

#### Quality Assessment Report:

GB/SIR/QAR08.0019/00



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## Schedule

### EQUIPMENT:

*Equipment and systems covered by this certificate are as follows:*

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	Io =	2.708 A	Po =	6.142 W	Ci =	0
Co =	7.4 $\mu$ F	Li =	0	Lo =	19 $\mu$ H		

### SPECIFIC CONDITIONS OF USE: YES as shown below:

- 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.



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## DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

**Issue 1** - this issue introduced the following changes:

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

**Issue 2** - this issue introduced the following changes:

1. 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.

**Issue 3** - this issue introduced the following changes:

1. Allow three new alternative potting compounds to be used in the 9W3000 battery pack.
2. The use of a slightly larger enclosure was endorsed.