



1 **EC TYPE-EXAMINATION CERTIFICATE**

2 Equipment intended for use in Potentially Explosive Atmospheres Directive 94/9/EC

3 Certificate Number: **Sira 13ATEX2208X** Issue: **0**

4 Equipment: **RFID Transponder Type TV1 I.S.**

5 Applicant: **Davis Derby Limited**

6 Address: Chequers Lane
Derby DE21 6AW
UK

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

8 Sira Certification Service, notified body number 0518 in accordance with Article 9 of Directive 94/9/EC of 23 March 1994, 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 60079-0:2012

EN 60079-11:2012

The above list of documents may detail standards that do not appear on the UKAS Scope of Accreditation, but have been added through Sira's flexible scope of accreditation, which is available on request.

10 If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this certificate.

11 This EC 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:



I M1
Ex ia I Ma
Ta = (-20°C ≤ Ta ≤ +60°C)

or



II 2G
Ex ia IIC T6 Gb
Ta = (-20°C ≤ Ta ≤ +60°C)

Project Number 30047

C Ellaby
Deputy Certification Manager

This certificate and its schedules may only be reproduced in its entirety and without change.



SCHEDULE

EC TYPE-EXAMINATION CERTIFICATE

**Sira 13ATEX2208X
Issue 0**

13 DESCRIPTION OF EQUIPMENT

The RFID Transponder Type TV1 I.S. responds to a signal from an unspecified device (typically an interrogator unit) and transmits a unique electronic code back to the external device. It is designed for use by persons requiring internal and external access and clips onto clothing or may be worn as a pendant using a suitable securing method. The device is powered from a single lithium coin cell and all circuitry is encapsulated.

14 DESCRIPTIVE DOCUMENTS

14.1 Drawings

Refer to Certificate Annexe.

14.2 Associated Sira Reports and Certificate History

Issue	Date	Report number	Comment
0	12 February 2014	R30047A/00	The release of the prime certificate.

15 SPECIAL CONDITIONS FOR SAFE USE (denoted by X after the certificate number)

15.1 No precautions against electrostatic discharge are necessary for portable equipment that has an enclosure made of plastic, metal or a combination of the two, except where a significant static-generating mechanism has been identified. Activities such as placing the item in a pocket or on a belt, operating a keypad or cleaning with a damp cloth, do not present a significant electrostatic risk. However, where a static-generating mechanism is identified, such as repeated brushing against clothing, then suitable precautions shall be taken, e.g. the use of anti-static footwear.

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 CERTIFICATION

17.1 The use of this certificate is subject to the Regulations Applicable to Holders of Sira Certificates.

17.2 Holders of EC type-examination certificates are required to comply with the production control requirements defined in Article 8 of directive 94/9/EC.

Certificate Annexe

Certificate Number: Sira 13ATEX2208X
Equipment: RFID Transponder Type TV1 I.S.
Applicant: Davis Derby Limited



Issue 0

Drawing No.	Sheets	Rev.	Date (Sira stamp)	Title
A6975	1 of 7	1	10 Feb 14	Cyphertag TV1 I.S. TX Coil
A6975	2 of 7	1	10 Feb 14	Cyphertag TV1 I.S. R/X Coil
A6975	3 of 7	1	10 Feb 14	Cyphertag TV1 I.S. Schematic
A6975	4 of 7	1	10 Feb 14	Cyphertag TV1 I.S. PCB SDJH, Layout and trackwork
A6975	5 of 7	1	10 Feb 14	Cyphertag TV1 I.S. Item list
A6975	6 of 7	1	10 Feb 14	General encapsulation and assembly
A6975	7 of 7	1	10 Feb 14	Label details Type TV1 I.S.

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Sira Certification Service

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Web: www.siracertification.com



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

Certificate No.: **IECEX SIR 13.0083X** issue No.: **0** Certificate history:

Status: **Current**

Date of Issue: **2014-02-20** Page 1 of 3

Applicant: **Davis Derby Limited**
Chequers Lane
Derby DE21 6AW
United Kingdom

Electrical Apparatus: **RFID Transponder Type TV1 I.S.**
Optional accessory:

Type of Protection: **Intrinsically Safe**


Marking: **Ex ia I Ma** or **Ex ia IIC T8 Gb**
 $T_a = (-20^{\circ}\text{C} \leq T_a \leq +60^{\circ}\text{C})$ $T_a = (-20^{\circ}\text{C} \leq T_a \leq +60^{\circ}\text{C})$

Approved for issue on behalf of the IECEx Certification Body: **C Ellaby**

Position: **Deputy Certification Manager**

Signature:
(for printed version)

Date:


2014-02-20

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
Rake Lane
Eccleston
Chester
CH4 9JN
United Kingdom

sira
CERTIFICATION



IECEx Certificate of Conformity

Certificate No.: IECEx SIR 13.0083X

Date of Issue: 2014-02-20

Issue No.: 0

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Manufacturer: **Davis Derby Limited**
Chequers Lane
Derby DE21 6AW
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:

IEC 60079-0 : 2011 Explosive atmospheres - Part 0: General requirements
Edition: 6.0

IEC 60079-11 : 2011 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "I"
Edition: 6.0

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/ExTR14.0035/00](#)

Quality Assessment Report:

[GB/BAS/QAR06.0077/05](#)



IECEx Certificate of Conformity

Certificate No.: IECEx SIR 13.0083X

Date of Issue: 2014-02-20

Issue No.: 0

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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The RFID Transponder Type TV1 I.S. responds to a signal from an unspecified device (typically an interrogator unit) and transmits a unique electronic code back to the external device. It is designed for use by persons requiring internal and external access and clips onto clothing or may be worn as a pendant using a suitable securing method. The device is powered from a single lithium coin cell and all circuitry is encapsulated.

CONDITIONS OF CERTIFICATION: YES as shown below:

1. No precautions against electrostatic discharge are necessary for portable equipment that has an enclosure made of plastic, metal or a combination of the two, except where a significant static-generating mechanism has been identified. Activities such as placing the item in a pocket or on a belt, operating a keypad or cleaning with a damp cloth, do not present a significant electrostatic risk. However, where a static-generating mechanism is identified, such as repeated brushing against clothing, then suitable precautions shall be taken, e.g. the use of anti-static footwear.