



1 **EC TYPE-EXAMINATION CERTIFICATE**

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

3 Certificate Number: Sira 04ATEX3018

4 Equipment: Zareba Sensepoint Junction Boxes\*

5 Applicant: Zellweger Analytics Ltd

6 Address: Hatch Pond House  
4 Stinsford Road  
Nuffield Estate  
Poole  
Dorset BH17 7RZ  
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 confidential report numbers R53V11412A and R51V13565A.

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 50014:1997+A1 and A2  
EN 50019:2000  
EN 50281-1-1:1998

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:



II 2 GD

EEx e II T6 (Ta = -40°C to +40°C)

T85°C

EEx e II T5 (Ta = -40°C to +50°C)

T100°C

EEx e II T6 (Ta = -40°C to +50°C)

T85°C

EEx e II T5 (Ta = -40°C to +55°C)

T100°C

EEx e II T3 (Ta = -40°C to +130°C)

T150°C

\* Due to restrictions applied by the applicant some products that are detailed in this certificate may not be commercially available.

Project Number 53V11412  
Date 18 February 2004  
Latest issue 14 June 2005  
C. Index 04

C Ellaby  
Certification Officer

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**Sira Certification Service**

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**SCHEDULE**

**EC TYPE-EXAMINATION CERTIFICATE**

Sira 04ATEX3018

Re-issued 14 June 2005 to introduce the changes described in report number R51V13565A.

**13 DESCRIPTION OF EQUIPMENT**

The Zareba Sensepoint Junction Boxes comprises a glass reinforced polyester enclosure with a hinged lid secured by four socket head screws. They are fitted with an M6 internal/external earth assembly that is manufactured from brass. An internal earth continuity plate is also an option.

The following table lists specific increased safety terminals that have been tested and can be used in the Range 9000 Junction Boxes.

Terminal	Manufacturer	Certificate numbers
SAK 2.5	Weidmuller Group UK	BAS Ex 813092U or BAS Ex 823112U
SAK 4	Weidmuller Group UK	BAS Ex 813092U or BAS Ex 823112U
SAK 6N	Weidmuller Group UK	BAS Ex 813092U or BAS Ex 823112U
SAK10	Weidmuller Group UK	BAS Ex 813092U or BAS Ex 823112U
BK3 to BK8	Weidmuller Group UK	BAS Ex 813094U
MK 6/3, /4, /6	Weidmuller Group UK	BAS Ex 813095U
WDU2.5	Weidmuller Group UK	BAS Ex 85B3157U
MA2.5/5	Entrelec	LCIE 91.C0004U
M4/6	Entrelec	LCIE 83.0016U

When a tested combination of terminals is supplied, the arrangements, maximum voltage and maximum current, as defined in the manufacturer's drawings, are shown on an internal label and the following code is applied:

EEx e II T6 (Ta = -40°C to +50°C) T85°C

Alternatively, any screw type terminals that are suitably ATEX certified as EEx e II may be fitted, as the Junction boxes can be supplied using the maximum dissipated power method according to EN 50019:2000. A maximum dissipated power rating of 7.2 W is assigned for this purpose.

When using the power dissipation method to select terminals the following certification codes are appropriate:

EEx e II T6 (Ta = -40°C to +40°C) T85°C  
 EEx e II T6 (Ta = -40°C to +50°C) T85°C  
 EEx e II T5 (Ta = -40°C to +50°C) T100°C  
 EEx e II T5 (Ta = -40°C to +55°C) T100°C  
 EEx e II T3 (Ta = -40°C to +130°C) T150°C

**14 DESCRIPTIVE DOCUMENTS**

- | 14.1 | Drawing No. | Sheet  | Rev. | Date      | Title                                           |
|------|-------------|--------|------|-----------|-------------------------------------------------|
|      | 2106E0041   | 1 of 1 | 3    | 09 Jun 05 | Sensepoint Junct Box Certification Label Zareba |
- 14.2 Report numbers R53V11412A and R51V13565A
- 14.3 Certificate number Sira 02ATEX3111 last amended 16 May 2003

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

None

Date 18 February 2004

Latest issue 14 June 2005

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**SCHEDULE**

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**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 report numbers R53V11412A and R51V13565A.

**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.

17.3 This certificate relies on the following previously certified products. When used as part of the Zareba Sensepoint Junction box, the key attributes listed in the table below shall still be maintained by their original certificate.

Terminal description	Certificate number	Key attributes
Weidmuller, SAK	BAS Ex 813092U or BAS Ex 823112U	EEx e II
Weidmuller, BK3 to BK8	BAS Ex 813094U	EEx e II
Weidmuller, MK 6/3, /4, /6	BAS Ex 813095U	EEx e II
Weidmuller, WDU2.5	BAS Ex 85B3157U	EEx e II
Entrelec, MA2.5/5	LCIE 91.C0004U	EEx e II
Entrelec, M4/6	LCIE 83.0016U	EEx e II
Increased safety terminal	As appropriate	Any screw type terminal that is suitably ATEX certified as EEx e II (cage clamp terminals shall not be fitted)

17.4 The terminals fitted into the Zareba Sensepoint Junction Boxes shall conform to the following requirements:

Temperature class of Junction Box	Requirement
T6	The terminals shall have an insulation limiting temperature of 100°C minimum
T5	The terminals shall have an insulation limiting temperature of 120°C minimum
T3	The terminals shall be ceramic

17.5 All terminals fitted shall be suitably certified and installed in accordance with their certificate conditions and the relevant codes of practice/wiring regulations.

17.6 When using the maximum dissipated power method, the power of a particular junction box shall be calculated in accordance with EN 50019:2000 Annex C, C.2 and this shall not exceed the maximum dissipated power rating of the enclosure, 7.2 W.

17.7 When the junction boxes are equipped by the manufacturer with terminals, a routine electric strength test shall be carried out only if the components are wired. This test shall be carried out in accordance with EN 50019:2000 clause 7.1.

17.8 The manufacturer shall only market those products that may be marked with this certificate number, as identified by the drawings listed in section 14.1.

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### CERTIFICATE OF CONFORMITY VARIATION

(The Directives under which this certificate was issued were repealed on 30 June 2003)

<b>CERTIFICATE NUMBER</b>	SCS Ex95C2154X	Dated	11 January 1996
		Re-issued	31 October 2000
<b>VARIATION NUMBER</b>	1 (ONE)	Dated	14 June 2005

#### VARIATION TO APPARATUS

To permit:

- 1 The suspension of this certificate at the certificate holder's request.

#### DESCRIPTIVE DOCUMENTS

None

#### ADDITIONAL CONDITIONS OF CERTIFICATION

None

**File No.** 51V13565

**Report No.** R51V13565A

C Ellaby  
Certification Officer

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**EC TYPE-EXAMINATION CERTIFICATE VARIATION**

<b>CERTIFICATE NUMBER</b>	Sira 04ATEX3018	Dated	18 February 2004
		Latest issue	14 June 2005
<b>VARIATION NUMBER</b>	1 (ONE)	Dated	18 February 2004
		Latest issue	14 June 2005

**VARIATION TO EQUIPMENT**

To permit:

- 1 The introduction of alternative product label that allows a distributor's name to be applied to the product.

**DESCRIPTIVE DOCUMENTS**

None

**ADDITIONAL CONDITIONS OF CERTIFICATION**

None

Re-issued 14 June 2005 to recognise the re-issue of the prime certificate.

**File No.** 51V13565  
**Report Nos.** R53V11412A and R51V13565A

  
**C Ellaby**  
Certification Officer

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