



1 **EC TYPE-EXAMINATION CERTIFICATE**

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

3 Certificate Number: **Sira 11ATEX3132U** Issue: **0**

4 Component: **CEX Range of Empty Metal Enclosures**

5 Applicant: **CE-TEK**

6 Address: **Unit 1
Tideswell Business Park
Tideswell
Derbyshire SK17 8NY
UK**

7 This component and any acceptable variation thereto are 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 component has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of a component 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:

Category 1

EN 60079-0: 2006
EN 60079-11: 2007
EN 61241-0: 2006
EN 61241-1: 2004 (inc. corrigendum No. 1 & 2)
EN 60079-0: 2009 (used for guidance in respect of marking)

Category 2

EN 60079-0: 2009
EN 60079-7: 2007
EN 61241-0: 2006
EN 61241-1: 2004 (inc. corrigendum No. 1 & 2)
EN 60079-31: 2009 (used for guidance in respect of marking)

10 The sign 'U' is placed after the certificate number to indicate that the product assessed is a component and may be subject to further assessment when incorporated into equipment. Any special conditions for safe use are listed in the schedule to this certificate.

11 This EC type-examination certificate relates only to the design and construction of the specified component. If applicable, further requirements of this Directive apply to the manufacture and supply of this component.

12 The marking of the component shall include the following:



II 1 G D
Ex ia IIC Ga
Ex ta IIIC Da IP66



II 2 G D
Ex e IIC Gb
Ex tb IIIC Db IP66

Project Number 24612

C Ellaby
Deputy Certification Manager

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SCHEDULE

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13 DESCRIPTION OF COMPONENT

The CEX Empty Enclosures are manufactured from either stainless steel (minimum thickness 1.5 mm) or mild steel (minimum thickness 2.0 mm) with a corrosion resistant paint coating. They are made in various sizes that satisfy the requirements of EN 60529:1991 classification IP66 by the use of gaskets fixed to one surface on the lid and the gland plates, note that the gland plates may be full width and length and are not fitted on the smallest sizes. The range consists of the following sizes:

Box reference	Height (A) (mm)	Width (B) (mm)	Depth (C) (mm)
CEX 0	110	110	65
CEX 1	143	143	93
CEX 151590	150	150	90
CEX 191910	190	190	100
CEX 2A	193	193	186
CEX 3	220	165	130
CEX 3A	218	168	210
CEX 3B	377	218	156
CEX 3C	377	218	210
CEX 3H	218	168	130
CEX 3AH	218	168	210
CEX 3BH	377	218	156
CEX 3CH	377	218	210
CEX 231513	229	152	130
CEX 262615	260	265	150
CEX 262620	260	265	200
CEX 303015	306	306	150
CEX 303020	306	306	200
CEX 352615	350	265	150
CEX 352620	350	265	200
CEX 4	377	377	156
CEX 4A	377	377	210
CEX 453815	458	382	150
CEX 453820	458	388	200
CEX 484815	480	480	150
CEX 484820	480	480	200
CEX 5	527	427	156
CEX 5B	530	530	150
CEX 5C	527	527	210
CEX 553615	550	360	150
CEX 553620	550	360	200
CEX 765015	762	508	150
CEX 765020	762	508	200
CEX 6	827	577	156
CEX 6A	827	577	210
CEX 6B	827	577	300
CEX 916120	920	610	200
CEX 7	977	677	208
CEX 7A	977	677	156
CEX 7B	977	677	300

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Sira Certification Service

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Box reference	Height (A) (mm)	Width (B) (mm)	Depth (C) (mm)
CEX 8	1177	777	156
CEX 8A	1177	777	210
CEX 8B	1190	770	300
CEX A	900	1300	200
CEX B	1100	2000	400
CEX C	1300	2000	200
CEX D	1300	2000	400
CEX 202060	2000	2000	600

The gaskets are extruded, have a one piece construction and, depending on the required temperature range, may be made from either:

- Neoprene rubber (Suitable for -20°C to 75°C)
- Optional neoprene bonded cork on the gland plates only (Suitable for -20°C to 75°C)
- EPDM rubber (Suitable for -40°C to 110°C)
- Silicone rubber (Suitable for -50°C to 185°C)

Back-straps/mounting lugs are welded to the rear of the enclosure to provide fixings and the enclosures are fitted with either metal TS32 or TS35 mounting rails or smaller, metal TS15 mounting rails, these may be mounted vertically or horizontally.

Design options

- Alternative, intermediate size Empty Enclosures may be manufactured, with any given dimension no larger than the respective dimension of the larger enclosure or smaller than the respective dimension of the smallest enclosure. In these cases the ratio shall be no greater than 4 x 3. In addition the following specific size enclosures are included:

Box reference	Height (A) (mm)	Width (B) (mm)	Depth (C) (mm)
CEX A	900	1300	200
CEX B	1100	2000	400
CEX C	1300	2000	200
CEX D	1300	2000	400

- Hinges may be fitted to one side of the enclosure optional padlock hasp(s) to other(s).
- Label brackets may be welded to the lid/cover plate, these allow additional labels to be fitted.

14 **DESCRIPTIVE DOCUMENTS**

14.1 **Drawings**

Refer to Certificate Annexe.

14.2 **Associated Sira Reports and Certificate History**

Issue	Date	Report no.	Comment
0	13 April 2011	R24612A/00	The release of prime certificate.

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15 SPECIAL CONDITIONS FOR SAFE USE

15.1 The maximum service temperature range permitted for the empty metal enclosures is dependent upon the gasket material used, hence, the maximum temperature is limited to the following:

- Neoprene rubber and optionally neoprene bonded cork on the gland plates -20°C to 75°C
- EPDM rubber -40°C to 110°C
- Silicone rubber -50°C to 185°C

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.

17.3 The manufacturer shall take all reasonable steps to ensure that the user/installer can comply with the special condition for safe use applicable to these products, in particular, it is the manufacturer's responsibility to ensure that the specific temperature range and gasket material for each enclosure is clearly identifiable by the user/installer.

17.4 When an empty enclosure is manufactured to an intermediate size, not listed in the table shown in the Product Description - Section 1.10, then any given dimension shall not be larger than the respective dimension of the larger enclosure or smaller than the respective dimension of the smallest enclosure. In addition, the ratio shall be no greater than 4 x 3.

Certificate Annexe

Certificate Number: Sira 11ATEX3132U
Component: CEX Range of Empty Metal Enclosures
Applicant: CE-TEK



Issue 0

Number	Sheet	Rev.	Date	Description
CEX-26108-1	1 of 1	01	26 Jan 08	General Arrangement
CEX-26108-2	2 of 2	01	26 Jan 08	General Arrangement
CEX-22311-3	3 of 3	00	22 Mar 11	Dimension Table & Notes
CEX 20020060	1 of 1	-	29 Jan 08	General Arrangement of CEX 20020060
CET30311/1	1 of 1	00	30 Mar 11	Label – Ex e
CET30311/2	1 of 1	00	30 Mar 11	Label – Ex ia
CET 2A001	3 of 4	-	12 Jan 10	Gland Entry Positions
CET 2A001	4 of 4	-	12 Jan 10	Gland Entry Positions
CEX 1501	3 of 4	-	12 Jan 10	Gland Entry Positions
CEX 1501	4 of 4	-	12 Jan 10	Gland Entry Positions
CEX 1901	3 of 4	-	12 Jan 10	Gland Entry Positions
CEX 1901	4 of 4	-	12 Jan 10	Gland Entry Positions
CET 1001	3 of 4	-	12 Jan 10	Gland Entry Positions
CET 1001	4 of 4	-	12 Jan 10	Gland Entry Positions
CET 001	3 of 4	-	12 Jan 10	Gland Entry Positions
CET 001	4 of 4	-	12 Jan 10	Gland Entry Positions

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