

CONFORMITÉ EUROPÉENNE

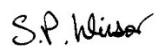
EU - TYPE EXAMINATION CERTIFICATE

Product or Protective System Intended for use in Potentially Explosive Atmospheres
Directive 2014/34/EU – Annex III

- EU - Type Examination Certificate No.: **TRAC12ATEX0013X (incorporating variations V1 to V4)**
- Product: **Flameproof Enclosures – GUBC, GUBT, GUBHC, GUF2C and GUF2T**
- Manufacturer: **JCE Group,**
- Address: **East Way, Lee Mill Industrial Estate, Ivybridge, Devon, PL21 9LL,
United Kingdom**
- This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
- Element Materials Technology, Notified Body number 2812, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive. The examination and test results are recorded in the confidential report **TES-004699-33-01A, TES-004699-33-03A, TRA-049154-32-01A and TRA-062696-33-00A.**
- Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
- EN IEC 60079-0:2018 EN 60079-1:2014 EN 60079-31:2014**
- Except in respect of those requirements listed at section 18 of the schedule.
- If the sign "X" is placed after the certificate number, it indicates that the product is subject to specific conditions of use specified in the schedule to this certificate.
- This EU - TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.
- The marking of this product shall include the following:

 **II 2 G Ex db IIC T4 / T5 / T6 Gb or II 2 G Ex db [ia/ib/ic] IIC T4 / T5 / T6 Gb**
II 2 D Ex tb IIIC T130°C / T95°C / T80°C Db or Ex tb [ia/ib/ic] IIIC T130°C / T95°C / T80°C Db

This certificate and its schedules may only be reproduced in its entirety and without change. This certificate is issued in accordance with the Element Materials Technology Ex Certification Scheme.



S P Winsor, Certification Manager

Issue date: 2024-12-19

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15Description of Product

The GUB Series enclosures are flameproof enclosures designed to be fitted with a variety of internal equipment. Typical equipment fitted is detailed on drawing A3C-3003.

The equipment model designations are as follows:

GUB (H) (S) (T) (C) 1-5

Where:

- H - Windowed Lid (not present – solid lid).
- S - Stainless Steel enclosure (GUBS3/GUBHS3 only).
- T - Terminal enclosure.
- C - Equipment enclosure.

They consist of a range of enclosures of varying sizes manufactured from LM25 aluminium alloy. The GUB designation denotes that the enclosures are fitted with solid aluminium threaded lids. The GUBH designation denotes the use of lids with a cemented viewing window. These are designed to accommodate instrument type equipment.

The GUB3 / GUBH3 size enclosure can also be manufactured from stainless steel. This version enclosure is designated GUBS3 / GUBHS3.

The enclosures may be painted or powder coated.

The equipment was evaluated for use with gas group IIC, and dust group IIIC within a temperature range of -40 °C to +40 °C and -40 °C to +60 °C (or any temperature within these limits).

Intrinsically Safe equipment may be fitted internally to the enclosures with suitable modification to the marking

Table 1 - Thermal Data

Enclosure Type	Power Dissipation (W)	Temperature Class	
		Ambient Temperature (°C)	
		+40	+60
GUB1/ GUBH1	15	T6	T5
	30	T5	T4
GUB2	15	T6	T5
	30	T5	T4
GUB3/ GUBH3	20	T6	T5
	40	T6	T5
	50	T5	T4
GUB4/ GUBH4	20	T6	T5
	40	T6	T5
	50	T5	T4
GUB5/ GUBH5	40	T6	T6
	80	T6	T5

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GUFX2C) or terminals (GUFX2T). The enclosure is manufactured from LM25 aluminium alloy. The enclosure is fitted with a solid aluminium threaded lid. Typical equipment fitted is detailed on drawing A3C-3005.

The equipment was evaluated for use with gas group IIC and dust group IIIC, within a temperature range of -40 °C to +60 °C or -40 °C to +40 °C.

Intrinsically Safe equipment may be fitted internally to the enclosures with suitable modification to the marking.

Table 2 - Thermal Data

Enclosure Type	Power Dissipation (W)	Temperature Class	
		Ambient Temperature (°C)	
		+40	+60
GUFX2	10	T6	T6

16 Test Report No. (as added for this issue of the certificate): TRA-062696-33-00A.

17 Specific Conditions of Use

1. Where painted or powder coated, the enclosures could present an electrostatic hazard. Clean only with a damp or anti-static cloth.
2. For equipment with temperature class T5 or T4, cables must be suitable for use at temperatures of 100 °C (T5) or 135 °C (T4).
3. Only suitably ATEX certified cable glands and blanking elements shall be used.
4. As part of the routine maintenance schedule, the condition of the window cement shall be periodically inspected for any degradation or discolouration of the cement that may compromise the explosion protection.
5. The enclosure is also to be earthed externally using the earth point provided.
6. Where internal intrinsically safe equipment is fitted, refer to the instructions for permitted category, equipment protection level and gas group.



Attention is drawn to the operating and installation instructions which may contain useful information in relation to conditions of use.

18 Essential Health and Safety Requirements (Directive Annex II)

In addition to the Essential Health and Safety Requirements covered by the standards listed at item 9, all other requirements are demonstrated in the relevant reports.

19 Drawings and Documents

The list of controlled technical documentation is given in Appendix A to this schedule.

20 Routine Tests

None.

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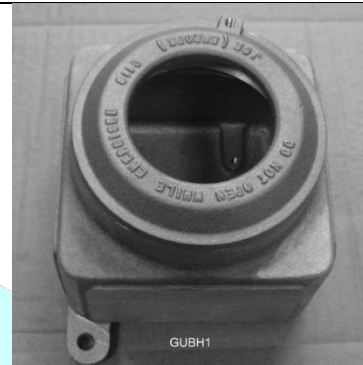
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21 Photographs

GUB 1



GUBH 1



GUB 3



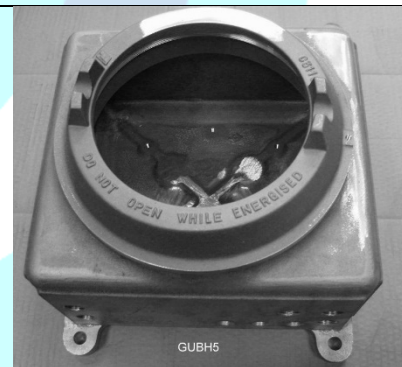
GUBH 3



GUB 5



GUBH 5



GUFX



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22 Details of Markings

JCE GROUP	
JCE (Europe) Ltd PLYMOUTH UK	
CE 2813	II 2 G II 2 D
TRAC12ATEX0013X T IP66	
IECEX TRC 12.0005X T °C	
Ex db IIC Gb	-__°C ≤ Ta ≤ +__°C
Ex tb IIIC Db	V A W
GUB	S/N 20__
FOR ENTRY THREAD SIZES AND TYPE REFER TO INSTALLATION INSTRUCTIONS	

JCE GROUP	
JCE (Europe) Ltd PLYMOUTH UK	
CE 2813	II 2 G II 2 D
TRAC12ATEX0013X	
-__°C ≤ Ta ≤ +__°C	IP66
Ex db IIC Gb T	V A
Ex tb IIIC Db T	°C W
GUB	S/N 20__
FOR ENTRY THREAD SIZES AND TYPE REFER TO INSTALLATION INSTRUCTIONS	

Where i.s. equipment is optionally fitted then the Ex coding includes supplementary i.s. marking (e.g. Ex db [ia])

Note: The manufacturer's name and address marked above (i.e. JCE (Europe) Ltd) may be replaced by the following in accordance with the manufacturer's ATEX accreditations:

JCE (Europe) Ltd.,
East Way, Lee Mill Industrial Estate, Ivybridge, Devon, PL21 9LL, United Kingdom.

JCE (Aberdeen) Ltd.,
Blackburn Business Park, Aberdeen, AB21 0PS, United Kingdom.

JCE Group (UK) Ltd.,
Blackburn Business Park, Aberdeen, AB21 0PS, United Kingdom.

JCE (Asia Pacific) Pte Ltd.,
51 Boon Lay Way, Trade Hub 21, #01-55 Singapore 6099657.

JCE Group USA Inc.
19998 Hickory Twig Way, Spring, Texas 77388, United States of America.

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23 Certificate History

Original certificate	2012-06-01	First issue.
Variation V1	2012-10-05	Addition of GUFX
Variation V2	2019-11-01	This certificate was originally issued by Notified Body number 0891 under Directive 2014/34/EU. The technical file has been transferred to Element Notified Body number 2812 without further assessment or evaluation.
Variation V2 Issue 2	2019-11-15	Correction to certificate header
Variation V3	2021-05-26	Standards update (gap analysis) and administrative change.
Variation V4	2024-12-19	New cell types added. RF energy sources now permitted. Ex code updated. Specific Condition of Use added.

This certificate is a consolidated certificate and reflects the latest status of the certification, including all variations and amendments.

24 Notes to CE marking

In respect of CE Marking, Element Materials Technology accepts no responsibility for the compliance of the product against all applicable Directives in all applications.

25 Notes to this certificate

Element Materials Technology certification reference: ERO041508P71 (GU-JCEQ-0007).

Throughout this certificate, the date format yyyy-mm-dd (year-month-day) is used.

Notified Body number 2812 is the designation for Element Materials Technology Rotterdam BV.

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. Variation certificates to such EC-Type Examination Certificates, and new issues of such certificates, may continue to bear the original certificate number issued prior to 20 April 2016.

TA1 TRA-049154-00

26 Conditions for the validity of this certificate

This certificate remains valid for so long as:

- (i) The equipment listed in section 4 is manufactured in accordance with the documents listed in Appendix A of this certificate.
- (ii) The standards listed in section 9 of this certificate continue to satisfy the Essential Health and Safety Requirements of Annex II of Directive 2014/34/EU and the generally acknowledged state of the art (e.g. as determined by the publishers of those standards).

SCHEDULE TO EU - TYPE EXAMINATION CERTIFICATE**CERTIFICATE NUMBER TRAC12ATEX0013X (incorporating variations V1 to V4)****APPENDIX A - TECHNICAL DOCUMENTS**

Title:	Drawing No.:	Rev. Level:	Date:
Certification Drawings – GUB Series Equipment Enclosures (8 sheets)	A3C-3003	3	2024-09-27
Installation, Operation and Maintenance Manual (3 sheets)	-	2	2024-05-16
Terminal Calculation Spreadsheet	A3C-3011	1	2012-05-23
Adhesive Datasheet	10-1096G-01	-	2008-11-21
Certification Drawings – GUF2 Enclosures to Exd IIC (2 sheets)	A3C-3005	1	2012-09-12
Installation, Operation and Maintenance Manual (GUF2 instructions – 2 sheets)	-	1	2012-06