1 **CONFORMITÉ EUROPÉENE**

EU - TYPE EXAMINATION CERTIFICATE

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

3 EU - Type Examination Certificate No.: **TRAC13ATEX0054X (incorporating variations V1 to V4)**

4 Product: **Flameproof Enclosures, EMH29 Series**
Models EMH29, EMH29E, EMH29SS, EMH29ESS, EMH29P, EMH29PE, EMH29PSS, EMH29PESS, EMH29F and EMH29FSS

5 Manufacturer: **JCE (Europe) Limited**

6 Address: **East Way, Lee Mill Industrial Estate, Ivybridge, Devon, PL21 9LL, United Kingdom**

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

8 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 **TRA-012091-33-00A, TRA-036997-33-00A and TRA-067135-33-00A**.

9 Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN IEC 60079-0:2018 **EN 60079-1:2014** **EN IEC 60079-31:2024**
EN 60079-28:2015

Except in respect of those requirements listed at section 18 of the schedule.

10 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.

11 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.

12 The marking of this product shall include the following:

II 2 G
Ex db IIC T5 / T6 Gb
Ex db op is IIC T5 / T6 Gb *Tamb see section 15*
II 2 D
Ex tb IIIC T95°C / T80°C Db
Ex tb op is IIIC 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: 2026-03-05

Element Materials Technology Rotterdam BV
Zekeringstraat 33, 1014 BV, Amsterdam, Netherlands
Registered in the Netherlands. Registered Office: PO Box 6854, 4802 HW, Breda, Netherlands
Company Reg. No. 24170257

13 SCHEDULE TO EU - TYPE EXAMINATION CERTIFICATE

14 CERTIFICATE NUMBER TRAC13ATEX0054X (incorporating variations V1 to V4)

15 Description of Product

The EMH29 equipment is a flameproof enclosure, designed to be fitted with a variety of internal equipment as detailed in the scheduled drawings.

The equipment model designations are detailed in Table 1. The EMH29 comprises a lower threaded body section base casting and an upper threaded cast cover with a windowed aperture. A threaded body extension is available that increases the volume of the enclosure through insertion between the lower base and the upper cover to accommodate a range of equipment.

The lower body section and extension are fabricated from either LM25 Aluminium or Stainless steel. The upper windowed covers and guards can also be made from LM25 Aluminium or Stainless steel.

In addition the aluminium body and cover may be coated.

The enclosure cover is available with either an 80mm or 86mm diameter aperture forming a cemented viewing window that can be provided with three glazing options comprising plain soda lime glass, Patol® glass, or Spectrosyl glass. The Patol® and Spectrosyl glass additionally includes a mechanical cover with viewing apertures provided for observation purposes when equipment such as cameras are fitted within the enclosure. Alternatively, guards may be employed where IR receivers are fitted.

The base casting can be supplied with either 1 x M25 or a 1 x 3/4” NPT entry located in the top face and either 2 x M20 entries or 2 X ½” NPT entries located in the bottom face positioned at 45mm centres. The guard for the Patol is supplied with a ¼ BSP parallel thread for connection of the air curtain supply, this connection is not critical to the protection concept.

The enclosure cover and base are secured with stainless steel locking screws to the body extension. The enclosure base is also supplied with an M4 stainless steel internal earth and a separate external M6 stainless steel earth stud as standard.

No additional entries are permitted into the enclosure other than those already permitted by the enclosure manufacturer.

The equipment was evaluated for use with gas group IIC, and dust group IIIC.

The Spectrosyl glass variant is only permitted for use in non op-is applications.

13 SCHEDULE TO EU - TYPE EXAMINATION CERTIFICATE

14 CERTIFICATE NUMBER TRAC13ATEX0054X (incorporating variations V1 to V4)

Table 1 Model Designations

Model Designation	Assembly & Dimensions	Material	Lid Style
EMH29	Standard enclosure 146mm Diameter x 129mm high	Aluminium LM25	Window
EMH29E	Enclosure fitted with extension 146mm Diameter x 299 mm high	Aluminium LM25	
EMH29SS	Standard enclosure (stainless steel) 146mm Diameter x 129mm high	Stainless steel	
EMH29ESS	Enclosure & extension (stainless steel) 146mm Diameter x 299 mm high	Stainless steel	
EMH29P	Enclosure fitted with Patol Glass & guard. 146mm Diameter x 129mm high	Aluminium LM25	
EMH29PE	Enclosure fitted with extension, Patol glass & guard 146mm Diameter x 299 mm high	Aluminium LM25	
EMH29PSS	Enclosure (stainless steel) fitted with Patol Glass & guard. 146mm Diameter x 129mm high	Stainless steel	
EMH29PESS	Enclosure & extension (stainless steel) fitted with Patol Glass & guard. 146mm Diameter x 299 mm high	Stainless steel	
EMH29F	Enclosure fitted with Spectrosyl Glass & guard. 149mm Diameter x 170mm high	Aluminium LM25	
EMH29FSS	Enclosure (stainless steel) ted with Spectrosyl Glass & guard. 149mm Diameter x 170mm high	Stainless steel	

Code	Description	Power Dissipation (W)	Ambient Temperature			
			Lower		Upper	
EMH29	Standard enclosure.	**30 W maximum power dissipation**. (This applies to all equipment model numbers listed)	-40°C	-20°C	+40°C	+60°C
EMH29SS	Standard enclosure (stainless steel)		-40°C	-20°C	+40°C	+60°C
EMH29P	Enclosure fitted with Patol Glass & guard.		-40°C	-20°C	+40°C	+60°C
EMH29PSS	Enclosure (stainless steel) fitted with Patol Glass & guard.		-40°C	-20°C	+40°C	+60°C
EMH29E	Enclosure fitted with extension.		-40°C	-20°C	+40°C	+60°C
EMH29ESS	Enclosure & extension (stainless steel).		-40°C	-20°C	+40°C	+60°C
EMH29PE	Enclosure fitted with extension, Patol glass & guard		-40°C	-20°C	+40°C	+60°C
EMH29PESS	Enclosure & extension (stainless steel) fitted with Patol Glass & guard.		-40°C	-20°C	+40°C	+60°C
EMH29F	Enclosure fitted with spectrosyl glass and gaurd		-	-20°C	+40°C	+60°C
EMH29FSS	Enclosure fitted with spectrosyl glass and guard (stainless steel)		-	-20°C	+40°C	+60°C

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Table 2 Thermal Data

Ambient Temperature	Temperature Classification
+40°C	T6/T80 °C
+60°C	T5/T95 °C

16 Test Report No. (as added for this issue of the certificate): TRA-067135-33-00A.

17 Specific Conditions of Use

1. Where painted or powder coated, the enclosure could present an electrostatic hazard. Clean only with a damp or anti-static cloth.
2. Flamepaths shall not be repaired by the end user.

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)

Element Materials Technology has conducted a gap analysis between the standards applied within the reports listed under section 8 and the latest versions of the corresponding harmonised standards (as listed in section 9). This analysis has confirmed continued compliance with the Essential Health and Safety Requirements. The analysis is detailed in report: TRA-067135-33-00A.

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

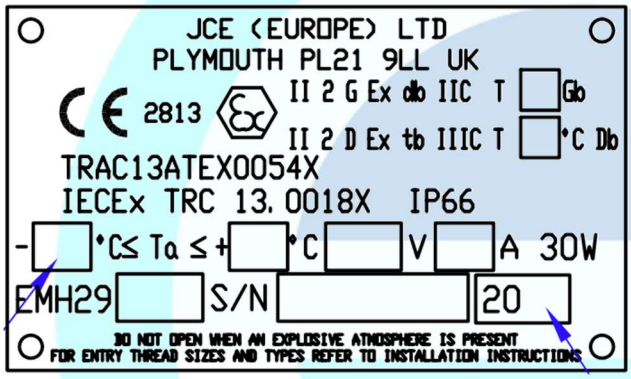
The list of controlled technical documentation is given in TRA-067135-00-SDL, dated 2026-03-02.

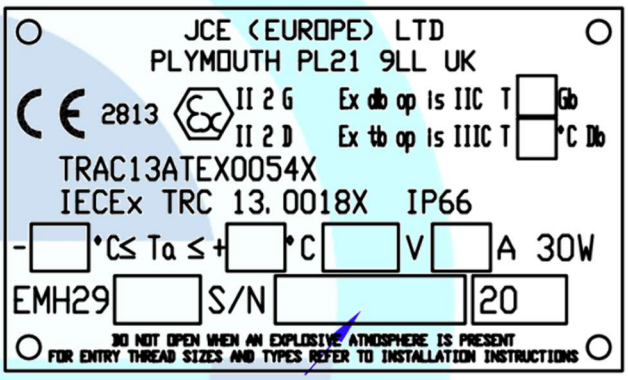
20 Routine Tests

1. The manufacturer is exempted from routine pressure testing the soda lime glass and Patol glass glazed windows when used at lower ambient temperature of -20 °C.
2. The manufacturer shall perform a 1.5x routine pressure test in accordance with EN/IEC 60079-1 Clause 16.1 at 16.4 bar for no less than 10 seconds when used at a lower ambient temperature of -40 °C.
3. For Spectrosyl windows, the manufacturer shall perform a 1.5x routine overpressure test in accordance with EN/IEC 60079-1 Clause 16.1 at 12.0 bar for no less than 10 seconds when used at a lower ambient temperature of -20 °C.

21 Photographs

22 Details of Markings





23 Certificate History

Original certificate	2014-02-12	First issue.
Variation V1	2017-10-30	Enclosures fitted with IR-LEDs are marked ‘op is’.
Variation V1, Issue B	2017-11-01	Correction to Specific Conditions of Manufacture No. 1, cosmetic change to marking plates.
Variation V2	2019-02-13	Administrative variation only.
Variation V3	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 V4	2026-03-05	Standards updated to latest editions, addition of models EMH29F and EMH29FSS, protection concept Ex d to Ex db and update of Specific Conditions of Use.

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: ERO050735P56 (GU-JCEQ-0008).

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.

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 TRA-067135-00-SDL, dated 2026-02-09.

(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).