



1 **EU-TYPE EXAMINATION CERTIFICATE**

2 Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

3 Certificate Number: **Sira 14ATEX9328X** Issue: **6**

4 Equipment: **Gecma RT Safe Area Unit**

5 Applicant: **Eaton Electric Limited**

6 Address: **Great Marlings  
Butterfield  
Luton LU2 8DL  
UK**

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

8 CSA Group Netherlands B.V., notified body number 2813 in accordance with Articles 17 and 21 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, 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 IEC 60079-0:2018      EN 60079-11:2012      EN 60079-28:2015

10 If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to Specific Conditions of Use identified in the schedule to this certificate.

11 This EU-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:

Gecma RT Safe Area Unit – fibre



II (2)GD  
[Ex op is IIC T4 Gb]  
[Ex op is IIIC Db]  
Ta = -30°C to +60°C

Gecma RT Safe Area Unit - copper



II (2)GD  
[Ex ib Gb] IIC  
[Ex ib Db] IIIC  
Ta = -30°C to +60°C



Signed: Michelle Halliwell

Title: Director of Operations

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SCHEDULE

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13 DESCRIPTION OF EQUIPMENT

The Gecma RT Safe Area Unit - Fibre is a keyboard video mouse (KVM) transceiver that is located in the non-hazardous area and acts as the interface between an uncertified computer device and a certified computer device in the hazardous area. It is available in either a single KVM desktop version or in a rack-mountable version that is capable of accommodating up to four KVMs. Communication between the non-hazardous and hazardous areas is via an "Ex op is" fibre optic link, which can be either multi-mode (up to 550 m range) or single mode (up to 10 km range). There are no electrical connections between the Gecma RT Safe Area Unit and hazardous area equipment.

The Gecma RT Safe Area Unit - Copper has the same function as the fibre model, but communicates to compatible hazardous area equipment by means of an 8-way Ethernet cable. The output is intrinsically safe and has the following entity parameters:

Table with 2 rows of entity parameters: Ui = 2.94 V, Ii = 1.584 A, Pi = 1.165 W, Ci = 0.24 µF, Li = 0, Uo = 3.3 V, Io = 1.778 A, Po = 1.467 W, Co = 99µF, Lo = 3.145µH, Lo/Ro = 13.5 µH/Ω

Variation 1 - This variation introduced the following changes:

- i. Introduction of the "Gecma RT Safe Area Unit - Copper" model, incorporating a copper Ethernet interface as an alternative to the optical interface, with the introduction of a new certification code [Ex ib Gb Db] IIC and the addition of entity parameters to the product description. The existing model, the 'Gecma RT Safe Area Unit' is re-named the 'Gecma RT Safe Area Unit - Fibre'
ii. As a result of the above change the description is modified, an 'X' suffix is added to the certificate number and EN 60079-11 is introduced to the list of standards

Variation 2 - This variation introduced the following changes:

- i. Change of manufacturer's name from Measurement Technology Limited to Eaton Electric Limited
ii. Following appropriate assessment to demonstrate compliance with the latest technical knowledge, EN 60079-28:2007 was replaced by EN 60079-28:2015, with a corresponding change to the marking.

Variation 3 - This variation introduced the following changes:

- i. Change of Ethernet barrier resistor values (for Gecma RT Safe Area Unit - Copper) - reduced from 15 Ω to 5.6 Ω in COM module.
ii. Updated drawings (CI6817-620 and CI6817-621) as a result of the change above
iii. As a result of the change above, change to the entity parameters as follows:
Original entity parameters for Ethernet Cable:

Table with 11 columns (Ui, Ii, Pi, Ci, Li, Uo, Io, Po, Co, Lo, Lo/Ro) and 2 rows of entity parameters for Ethernet Cable.

Amended entity parameters for Ethernet Cable:

Table with 11 columns (Ui, Ii, Pi, Ci, Li, Uo, Io, Po, Co, Lo, Lo/Ro) and 2 rows of amended entity parameters for Ethernet Cable.



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**Variation 4** - This variation introduced the following changes:

- i. The following manufacturing location was recognised: S.C. Cooper Industries Romania S.R.L, Zona Industriala Vest, Str. III Nr. 12, 310510 Arad, Romania.
- ii. Administrative changes to certification label drawing.

**Variation 5** - This variation introduced the following changes:

- i. To permit a number of changes to the equipment namely removal of RS232 connector and wiring, removal of filter assembly on mains power input with associated wiring changes, and rack handles removed from rack mount versions.
- ii. To permit the use of a new shape PSU and KVM PCB.
- iii. Following appropriate assessment to demonstrate compliance with the latest technical knowledge, EN 60079-0:2012 was replaced by EN IEC 60079-0:2018.

## 14 DESCRIPTIVE DOCUMENTS

### 14.1 Drawings

Refer to Certificate Annexe.

### 14.2 Associated Reports and Certificate History

| Issue | Date             | Report number | Comment  |
|-------|------------------|---------------|--|
| 0     | 06 January 2015  | R70017350A    | The release of the prime certificate.  |
| 1     | 14 July 2016     | R70070449A    | This Issue covers the following changes: <ul style="list-style-type: none"><li>• EC Type-Examination Certificate in accordance with 94/9/EC updated to EU Type-Examination Certificate in accordance with Directive 2014/34/EU. <i>(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. Variations to such EC Type-Examination Certificates may continue to bear the original certificate number issued prior to 20 April 2016.)</i></li><li>• The introduction of Variation 1.</li></ul> |
| 2     | 16 December 2016 | R70096537E    | The introduction of Variation 2.   |
| 3     | 17 May 2019      | R80003013B    | The introduction of Variation 3.   |
| 4     | 31 October 2019  | 1083          | Transfer of certificate Sira 14ATEX9328X from Sira Certification Service to CSA Group Netherlands B.V.   |
| 5     | 07 February 2022 | R80110233A    | The introduction of Variation 4.   |
| 6     | 23 January 2023  | R80153014A    | The introduction of Variation 5.   |

## 15 SPECIFIC CONDITIONS OF USE (denoted by X after the certificate number)

- 15.1 When the 'Gecma RT Safe Area Unit – copper' is connected to another device via an Ethernet cable, the two devices at each end of the Ethernet cable shall be connected to the same equipotential earth.

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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 the reports listed in Section 14.2.

#### 17 CONDITIONS OF MANUFACTURE

- 17.1 The use of this certificate is subject to the Regulations Applicable to Holders of CSA Group Netherlands B.V. certificates.
- 17.2 Holders of EU-Type Examination Certificates are required to comply with the conformity to type requirements defined in Article 13 of Directive 2014/34/EU.

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# Certificate Annexe



Certificate Number: Sira 14ATEX9328X  
Equipment: Gecma RT Safe Area Unit  
Applicant: Eaton Electric Limited

## Issue 0

| Drawing no. | Sheets | Rev. | Date (Sira stamp) | Title   |
|-------------|--------|------|-------------------|---|
| CI6816-624  | 1 of 1 | A.1  | 15 Dec 14         | Gecma RT Safe Area Single Unit - general assembly |
| CI6816-625  | 1 of 1 | A.0  | 15 Dec 14         | Gecma RT Safe Area Unit                           |
| CI6816-626  | 1 of 1 | A.1  | 15 Dec 14         | Gecma RT Safe Area Rack Unit - general assembly   |

## Issue 1

| Drawing no. | Sheets | Rev. | Date (Sira stamp) | Title   |
|-------------|--------|------|-------------------|---|
| CI6816-624  | 1 to 2 | 1    | 26 May 16         | Gecma RT Safe Area Single Unit – fibre, general assembly  |
| CI6816-625  | 1 to 2 | 1    | 11 Jul 16         | Gecma RT Safe Area Unit, marking                          |
| CI6816-626  | 1 to 2 | 1    | 26 May 16         | Gecma RT Safe Area Rack Unit – fibre, general assembly    |
| CI6816-628  | 1 to 2 | 1    | 26 May 16         | Gecma RT Safe Area Single Unit – copper, general assembly |
| CI6816-629  | 1 to 2 | 1    | 26 May 16         | Gecma RT Safe Area Rack Unit – copper, general assembly   |
| CI6817-620  | 1 of 1 | 1    | 26 May 16         | Gecma RT Safe Area Unit – copper, schematic               |
| CI6817-621  | 1 to 2 | 2    | 26 May 16         | Gecma RT Safe Area Unit – copper, critical component list |
| CI6817-622  | 1 of 1 | 1    | 26 May 16         | Gecma RT Safe Area Unit – copper, track layout 1944/3     |
| CI6817-622  | 1 of 1 | 2    | 26 May 16         | Gecma RT Safe Area Unit – copper, track layout 1944/4     |
| CI6817-623  | 1 to 2 | 2    | 26 May 16         | Gecma RT Safe Area Unit – copper, component layout        |

## Issue 2

| Drawing no. | Sheets | Rev. | Date (Sira stamp) | Title                            |
|-------------|--------|------|-------------------|----------------------------------|
| CI6816-625  | 1 to 2 | 2    | 07 Dec 16         | Gecma RT Safe Area Unit, marking |

## Issue 3

| Drawing no. | Sheets | Rev. | Date (Sira stamp) | Title   |
|-------------|--------|------|-------------------|---|
| CI6817-620  | 1 of 1 | 2    | 09 May 19         | Gecma RT Safe Area Unit – copper, schematic               |
| CI6817-621  | 1 to 2 | 2    | 09 May 19         | Gecma RT Safe Area Unit – copper, critical component list |

Issue 4 – No new drawings were introduced.

## Issue 5

| Drawing    | Sheets | Rev. | Date (Stamp) | Title  |
|------------|--------|------|--------------|--|
| CI6816-625 | 1 to 2 | 3    | 27 Jan 22    | GECMA RT Safe Area Unit Certification Label Details - SIRA |

## Issue 6

| Drawing    | Sheets  | Rev. | Date (Stamp) | Title  |
|------------|---------|------|--------------|--|
| C16816-624 | 1 and 2 | 2    | 16 Jan 23    | GECMA RT - Safe Area Single Unit GA - Fibre  |
| CI6816-626 | 1 and 2 | 2    | 16 Jan 23    | GECMA RT - Safe Area Rack Unit GA - Fibre    |
| CI6816-628 | 1 and 2 | 2    | 16 Jan 23    | GECMA RT - Safe Area Single Unit GA - Copper |
| CI6816-629 | 1 and 2 | 2    | 16 Jan 23    | GECMA RT - Safe Area Rack Unit GA - Copper   |

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