



# IECEX Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit [www.iecex.com](http://www.iecex.com)

Certificate No.:	<b>IECEX SIR 14.0033X</b>	Page 1 of 4	<u>Certificate history:</u>
Status:	<b>Current</b>	Issue No: 6	Issue 5 (2019-04-18)
Date of Issue:	2022-02-07		Issue 4 (2017-09-28)
Applicant:	<b>Eaton Electric Limited</b> Great Marlings Butterfield Luton LU2 8DL <b>United Kingdom</b>		Issue 3 (2016-12-16)
Equipment:	<b>MTL Gecma aa Workstation</b>		Issue 2 (2016-10-24)
Optional accessory:			Issue 1 (2016-04-13)
Type of Protection:	<b>Increased Safety, Intrinsically Safe, Encapsulation, Optical Isolation and Dust Protection by Enclosure</b>		
Marking:	Refer to the Annexe		

Approved for issue on behalf of the IECEx  
Certification Body:

**N Jones**

Position:

**Certification Manager**

Signature:  
(for printed version)

Date:

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1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting [www.iecex.com](http://www.iecex.com) or use of this QR Code.



Certificate issued by:

**CSA Group Testing UK Ltd**  
**Unit 6, Hawarden Industrial Park**  
**Hawarden, Deeside CH5 3US**  
**United Kingdom**





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Date of issue: 2022-02-07

Issue No: 6

Manufacturer: **Eaton Electric Limited**  
Great Marlings  
Butterfield  
Luton LU2 8DL  
**United Kingdom**

Additional manufacturing locations: **S.C. Cooper Industries Romania S.R.L**  
Zona Industriala Vest, Str. III, Nr. 12  
310510 Arad  
**Romania**

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

## STANDARDS :

The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

[IEC 60079-0:2011](#) Explosive atmospheres - Part 0: General requirements  
Edition:6.0

[IEC 60079-1:2014-06](#) Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"  
Edition:7.0

[IEC 60079-11:2011](#) Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"  
Edition:6.0

[IEC 60079-18:2014](#) Explosive atmospheres – Part 18: Equipment protection by encapsulation "m"  
Edition:4.0

[IEC 60079-28:2015](#) Explosive atmospheres - Part 28: Protection of equipment and transmission systems using optical radiation  
Edition:2

[IEC 60079-31:2013](#) Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"  
Edition:2

[IEC 60079-7:2015](#) Explosive atmospheres – Part 7: Equipment protection by increased safety "e"  
Edition:5.0

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

## TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

### Test Reports:

[GB/SIR/ExTR14.0133/00](#)  
[GB/SIR/ExTR16.0324/00](#)  
[GB/SIR/ExTR22.0001/00](#)

[GB/SIR/ExTR16.0076/00](#)  
[GB/SIR/ExTR17.0201/00](#)

[GB/SIR/ExTR16.0280/00](#)  
[GB/SIR/ExTR19.0104/00](#)

### Quality Assessment Reports:

[DE/BVS/QAR11.0006/11](#)

[GB/BAS/QAR07.0017/09](#)



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## **EQUIPMENT:**

Equipment and systems covered by this Certificate are as follows:

The MTL Gecma aa Workstation (where 'aa' refers to the model number and can be 'RT', 'TC' or 'PC') is a range of remote terminals for use in hazardous areas. It comprises the following modules contained within a stainless steel enclosure, or in the case of systems that include the optional keyboard and/or additional peripherals, two separate, but interconnected, stainless steel enclosures: power supply module COM module display module keyboard (optional)

Suitably-certified peripherals with compatible entity parameters may be connected to the COM Module, including but not limited to:

trackball trackpad joystick mouse

Depending on the power supply module fitted, the input parameters are:

a.c. version: 100-230 Vac, 50/60 Hz, 1.2 A; or

d.c. version: 18-36 Vdc, 5.5 A, 100 W

Refer to the Annexe for additional information

## **SPECIFIC CONDITIONS OF USE: YES as shown below:**

1. For system variants which include safety junction box JBU-100-E: The end user shall ensure that the incoming power supply cable to the increased safety junction box, JBU-100-E, which enters the enclosure via the increased safety cable gland, 22553yn11ex, has an outer diameter (OD) between 10.5 to 7.0 mm in accordance with the sealing requirements of IECEx PTB 10.0007X.



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Issue No: 6

## **DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)**

**This issue, Issue 6, recognises the following change; refer to the certificate Annexe to view a comprehensive history:**

1. The following manufacturing location was recognised: S.C. Cooper Industries Romania S.R.L, Zona Industrială Vest, Str. III Nr. 12, 310510 Arad, Romania.
2. Administrative changes to certification label drawing.
3. The following Additional manufacturing location was removed from the certificate: Gecma Components GmbH, Heinrich-Hertz-Strasse 12, 50170, Kerpen, Germany.

## **Annex:**

[IECEX SIR 14.0033X Annexe Issue 6.pdf](#)

Annexe to: IECEx SIR 14.0033X Issue 6

Applicant: Eaton Electric Limited

Apparatus: MTL Gecma aa Workstation



## MARKING

Certification code for models  
without keyboard option  
Ex eb mb[ib] ib op is IIC T4 Gb  
Ex tb IIIC T80°C Db  
Ta = -30°C to +60°C  
(trackball option -20°C to +60°C)

Certification code for models with keyboard  
and optional peripheral  
Ex eb mb[ib] ib op is IIC T4 Gb  
Ex tb ib IIIC T135°C Db  
Ta = -30°C to +60°C  
(trackball option -20°C to +60°C)

Low Temperature Version  
Ex db eb mb [ib] ib op is IIC T4 Gb  
Ta = -40°C to +45°C

## Conditions of Manufacture

1. The low temperature version of the equipment shall be subjected to a routine insulation resistance test of the heating system at 500 Vdc at the connection points of the terminal block in the JBU-100-E increased safety junction box. The test points shall be at the Line, Neutral, and Earth terminal block connections. One contact shall be at the terminal connection with the Line & Neutral conductors connected, the other contact shall be at the earth terminal connection which is connected to the earth braid of the trace heating cable. The test shall be performed in accordance with 60079-30-1, the pass criteria being a measured resistance in excess of 20MΩ.
2. All unfilled entries to the thermostat RAYSTAT-EX-02 shall be closed off by suitably certified Ex db stopping plugs.
3. The equipment incorporates the following previously-certified modules:
  - Gecma Power Supply Module, IECEx SIR 14.0030X
  - Gecma COM Module RT, IECEx SIR 14.0031X
  - Gecma COM Module TC, IECEx SIR 16.0062X
  - Gecma Display Module xx (where 'xx' is the display size), IECEx SIR 14.0032X
  - Gecma keyboard, IECEx BVS 05 0012, optional) with or without one of the following devices:
    - touchpad, IECEx TUN 04.0020 Issue 1, 3 February 2006
    - trackball, IECEx BVS 05.0004 Issue 2, 29 February 2016
    - joystick, IECEx TUN 04.0019 Issue 1, 24 January 2006
    - mouse, IECEx BVS 05.0013 Issue 0, 1 December 2005
    - Thermostat Type RAYSTAT-EX-02, IECEx LCI 08.0036X
    - Terminal/connection JBU-100-E, IECEx PTB 09.0039U
    - Trace heating system 20QTVR2-CT including end splice E-06, IECEx PTB 09.0057X
    - C25-21 Connection Kit, IECEx BAS 16.0040U
    - Cable gland type ADE1CN0752NPSCN, IECEx INE 12.0025X
    - Cable gland type U59, IECEx PTB 10.0007X

It is therefore the responsibility of the manufacturer to continually monitor the status of the certification associated with these modules, and the manufacturer shall inform Sira of any modifications of the device that may impinge upon the explosion safety design of the product.

Annexe to: IECEx SIR 14.0033X Issue 6

Applicant: Eaton Electric Limited

Apparatus: MTL Gecma aa Workstation



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## Full certificate change history

**Issue 1** – this Issue introduced the following changes:

1. Introduction of the 19" and 24" Display options;
2. Introduction of dust certification for the Gecma RT enclosure without the keyboard option, with an associated change to the marking;
3. Reduction in the lower ambient temperature from -15°C to -25°C for dust/gas (option without keyboard option) and -30°C for gas only (option with keyboard);
4. Removal of the manufacturing condition relating to the output current limitation to the PSU.

**Issue 2** – this Issue introduced the following changes:

1. The Company name was changed from Measurement Technology Limited to Eaton Electric Limited
2. Addition of the Gecma TC and PC models, with a change of product name on the certificate from "Gecma RT Remote Terminal" to the more generic "MTL Gecma Workstation".
3. Introduction of dust certification for the keyboard with trackball and touchpad options.
4. Addition of joystick and mouse options for models certified for gas only.
5. The modifications affect the manufacturer's name, trademark, equipment name, marking, product description and Conditions of Manufacture.
6. Addition of an alternative COM Module, IECEx SIR 16.0062X

**Issue 3** – this Issue introduced the following change:

1. Following appropriate assessment to demonstrate compliance with the latest technical knowledge, IEC 60079-7:2006, IEC 60079-18:2009 and IEC 60079-28:2006 were replaced by IEC 60079-7:2015, IEC 60079-18:2014 and IEC 60079-28:2015, with a corresponding change of the marking from "e" to "eb"

**Issue 4** – this Issue introduced the following changes:

1. Reassessment of the dust certification of the keyboard and peripheral pointing devices as intrinsically safe, with a corresponding change to the marking from Ex tb IIIC T80°C Db to Ex tb ib IIIC T135°C Db and a rationalisation of the ambient temperature ranges.
2. Extension of the dust certification to include the joystick and mouse, previously limited to gas certification only.
3. Sealing of the cable transit tubes between the display and keyboard enclosures.

**Issue 5** – this Issue introduced the following changes:

1. The introduction of a new 'Class I fibre universal' version of the workstation that has optical outputs that comply with Class 1 limits in accordance with IEC 60825-1 and as such is not marked 'op is'.
2. The introduction of a new 'Gecma Workstation ICE', this being a new low temperature version of the workstation certified for an ambient temperature range of -40°C to +45°C. This new version of the equipment is certified for explosive gas atmospheres only and is coded Ex db eb mb [ib] ib op is IIC T4 Gb. As a result IEC 60079-1 was added to the list of standards, as a consequence a Condition of manufacture was added and one was modified.
3. A Specific Condition of Use was added and therefore an 'X' suffix was added to the certificate number.

**Issue 6** – this Issue introduced the following changes:

1. The following manufacturing location was recognised: S.C. Cooper Industries Romania S.R.L, Zona Industrială Vest, Str. III Nr. 12, 310510 Arad, Romania.
2. Administrative changes to certification label drawing.
3. The following Additional manufacturing location was removed from the certificate: Gecma Components GmbH, Heinrich-Hertz-Strasse 12, 50170, Kerpen, Germany.

Date: 07 February 2022

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