



1 **EU-TYPE EXAMINATION CERTIFICATE**

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

3 Certificate Number: **Sira 14ATEX5064X** Issue: **8**

4 Equipment: **MTL Gecma aa Workstation**

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 60079-0:2012	EN 60079-7:2015	EN 60079-11:2012	EN 60079-18:2015
EN 60079-1:2014	EN 60079-28:2015	EN 60079-31:2014	

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:

Certification code for models without keyboard option



II 2(2)G
II 2D
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



II 2(2)G
II 2D
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)

Project Number 80110232

Signed: J A May

Title: Director of Operations

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13 DESCRIPTION OF EQUIPMENT

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

Variation 1 - This variation introduced the following changes:

- i. Introduction of the 19" and 24" Display options;
- ii. Introduction of dust certification for the Gecma RT enclosure without the keyboard option, with an associated change to the marking;
- iii. 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);
- iv. Removal of the manufacturing condition relating to the output current limitation to the PSU.

Variation 2 - This variation introduced the following changes:

- i. The Company name was changed from Measurement Technology Limited to Eaton Electric Limited.
- ii. 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".
- iii. Introduction of dust certification for the keyboard with trackball and touchpad options.
- iv. Addition of joystick and mouse options for models certified for gas only.
- v. The modifications affect the manufacturer's name, trademark, equipment name, marking, product description and Conditions of Manufacture.
- vi. Addition of an alternative COM Module, Sira 16ATEX5180X.

Variation 3 - This variation introduced the following change:

- i. Following appropriate assessment to demonstrate compliance with the latest technical knowledge, EN 60079-7:2007, EN 60079-18:2009 and EN 60079-28:2007 were replaced by EN 60079-7:2015, EN 60079-18:2015 and EN 60079-28:2015, with a corresponding change of the marking from "e" to "eb"

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Variation 4 - This variation introduced the following change:

- i. 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.
- ii. Extension of the dust certification to include the joystick and mouse, previously limited to gas certification only.
- iii. Sealing of the cable transit tubes between the display and keyboard enclosures.

Variation 5 - This variation introduced the following change:

- i. 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'.

Variation 6 - This variation introduced the following change:

- i. 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 EN 60079-1 was added to the list of standards, as a consequence a Condition of manufacture was added and one was modified.

Low Temperature Version



II 2(2)G
Ex db eb mb [ib] ib op is IIC T4 Gb
Ta = -40°C to +45°C

- ii. A Specific Condition of Use was added and therefore an 'X' suffix was added to the certificate number.

Variation 7 - This variation introduced the following change:

- i. The following manufacturing location was recognised: S.C. Cooper Industries Romania S.R.L, Zona Industrială Vest, Str. III Nr. 12, 310510 Arad, Romania.
- ii. Administrative changes to certification label drawing.
- iii. Standard EN 60079-31:2014 was added to the list of standards to correct a previous omission at Issue 7.

14 DESCRIPTIVE DOCUMENTS

14.1 Drawings

Refer to Certificate Annexe.

14.2 Associated CSA Reports and Certificate History

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Issue	Date	Report number	Comment
0	18 December 2014	R70005200D	The release of the prime certificate.
1	13 April 2016	R70043487A	The introduction of Variation 1.
2	24 October 2016	R70073033A	This Issue covers the following changes: <ul style="list-style-type: none">• 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>• The introduction of Variation 2.
3	16 December 2016	R70096537D	The introduction of Variation 3.
4	28 September 2017	R70123076B	The introduction of Variation 4.
5	18 April 2019	R70203365D	The introduction of Variation 5.
6	09 July 2019	R70203365E	The introduction of Variation 6.
7	31 October 2019	0752	Transfer of certificate Sira 14ATEX5064X from Sira Certification Service to CSA Group Netherlands B.V.
8	07 February 2022	R80110233A	This Issue covers the following changes: <ul style="list-style-type: none">• The introduction of Variation 7.• The Date for Issue 5 was amended to correct a typographical error.

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

- 15.1 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 PTB 02ATEX1115X.

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 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.
- 17.3 The equipment (other than the Low Temperature Version) incorporates the following previously-certified modules:
- Gecma Power Supply Module, IECEx SIR 14.0030X, Sira 14ATEX5061X

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- Gecma COM Module RT, IECEx SIR 14.0031X, Sira 14ATEX5062X
- Gecma COM Module TC, IECEx SIR 16.0062X/Sira 16ATEX5180X
- Gecma Display Module xx (where 'xx' is the display size), IECEx SIR 14.0032X, Sira 14ATEX5063X
- Gecma keyboard, IECEx BVS 05 0012, BVS 05ATEX E174X (optional) with or without one of the following devices:
 - touchpad, TUV 04 ATEX 2458, 3 February 2006
 - trackball, BVS 05ATEX E 048, 29 February 2016
 - joystick, TUV 04ATEX 2459, 24 January 2006
 - mouse, BVS 05 ATEX E 175 X, 1 December 2005

The Low Temperature Version of the equipment incorporates the following previously-certified modules:

- Gecma PSU Module (-40°C Low Temperature Version), Sira 14ATEX5061X
- Gecma COM module RT (-40°C Low Temperature Version), Sira 14ATEX5062X
- Gecma Display Module 24 (-40°C Low Temperature Version), Sira 14ATEX5063X
- Gecma keyboard, BVS ATEX E 174 X
- Joystick, TUV 04ATEX 2459
- Thermostat Type RAYSTAT-EX-02, LCIE 08ATEX6095X
- Terminal/connection JBU-100-E, PTB 09ATEX1061U
- Trace heating system 20QTVR2-CT including end splice E-06, Baseefa 06ATEX0185X
- C25-21 Connection Kit, Baseefa 16ATEX0037U
- Cable gland type ADE1CN0752NPSCN, INERIS 12ATEX0032X
- Cable gland type U59, PTB 02ATEX1115X

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 CSA of any modifications of the device that may impinge upon the explosion safety design of the product.

- 17.4 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.

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Certificate Annexe



Certificate Number: Sira 14ATEX5064X
Equipment: MTL Gecma aa Workstation
Applicant: Eaton Electric Limited

Issues 0 and 1 - The drawings listed with these Issues were rationalised and have been superseded by those detailed in Issue 2

Issue 2

Drawing no.	Sheets	Rev.	Date (Sira stamp)	Title
CI6815-624	1 to 4	2	10 Oct 16	MTL Gecma WS - general assembly, 19", 22", 24"
CI6815-625	1 of 1	3	10 Oct 16	MTL Gecma WS - marking
CI6815-626	1 to 3	1	10 Oct 16	MTL Gecma WS - system drawing
CI6815-627	1 to 3	1	10 Oct 16	MTL Gecma WS – keyboard assembly, dust certification
CI6815-630	1 to 2	1	10 Oct 16	Gecma keyboard assembly
CI6815-631	1 to 2	1	10 Oct 16	Gecma trackball assembly, dust certification
CI6815-632	1 to 2	1	10 Oct 16	Gecma touchpad assembly, dust certification

Issue 3

Drawing no.	Sheets	Rev.	Date (Sira stamp)	Title
CI6815-625	1 of 1	4	06 Dec 16	MTL Gecma WS - marking

Issue 4

Drawing no.	Sheets	Rev.	Date (Sira stamp)	Title
CI6815-624	1 to 5	3	14 Sep 17	MTL Gecma WS – display assembly, 19", 22", 24"
CI6815-625	1 to 2	5	14 Sep 17	MTL Gecma WS – marking
CI6815-627	1 to 5	3	14 Sep 17	MTL Gecma WS – keyboard assembly, dust certification

Issue 5

Drawing	Sheets	Rev.	Date (Sira stamp)	Title
CI6815-625	1 to 2	6	16 Apr 19	GECMA WS Certification Label Details - SIRA

Issue 6

Drawing	Sheets	Rev.	Date (Sira stamp)	Title
CI6815-624-A	1 to 3	2	20 Jun 19	General Arrangement, GECMA Workstation ICE
CI6815-625-A	1 of 1	2.0	18 Jun 19	GECMA RT Low Temperature Certification Label Details - SIRA

Issue 7 – No new drawings were introduced.

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Drawing	Sheets	Rev.	Date (Stamp)	Title
CI6815-625	1 to 2	7	27 Jan 22	GECMA WS Certification Label Details - SIRA

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