



# 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 BAS 19.0061X</b>	Page 1 of 5	<u>Certificate history:</u>
Status:	<b>Current</b>	Issue No: 2	<a href="#">Issue 1 (2024-09-09)</a> <a href="#">Issue 0 (2019-08-20)</a>
Date of Issue:	2024-09-27		
Applicant:	<b>Eaton Electric Limited</b> Great Marlings Butterfield Luton Bedfordshire LU2 8DL <b>United Kingdom</b>		
Equipment:	<b>FCS-9512-304xx MTL Foundation Fieldbus Junction Box</b>		
Optional accessory:			
Type of Protection:	<b>Increased Safety 'eb' &amp; Encapsulation 'mb'</b>		
Marking:	<b>Ex eb mb IIC T4 Gb (-40°C ≤ Ta ≤ +65°C)</b>		

Approved for issue on behalf of the IECEx  
Certification Body:

**P Oates**

Position:

**Certification Manager**

Signature:  
(for printed version)

Date:  
(for printed version)

27/09/2024

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Certificate issued by:

**SGS UK Limited**  
**Rockhead Business Park**  
**Staden Lane**  
**Buxton, Derbyshire SK17 9RZ**  
**United Kingdom**





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

Manufacturing  
locations: **MTL Instruments Pvt Limited**  
No 3 Old Mahabalipuram Road  
Sholinganallur  
Chennai 600119  
**India**

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 60079-0:2017** Explosive atmospheres - Part 0: Equipment - General requirements  
Edition:7.0

**IEC 60079-18:2017** Explosive atmospheres - Part 18: Protection by encapsulation "m"  
Edition:4.1

**IEC 60079-7:2017** Explosive atmospheres - Part 7: Equipment protection by increased safety "e"  
Edition:5.1

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/BAS/ExTR19.0178/00**

**GB/BAS/ExTR24.0004/00**

**GB/SGS/ExTR24.0115/00**

Quality Assessment Reports:

**GB/BAS/QAR06.0022/11**

**GB/BAS/QAR07.0017/11**



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## EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The FCS-9512-304xx MTL Foundation Fieldbus Junction Box enables up to twelve individual field devices in a Zone 1 hazardous area to be connected to a high energy trunk cable. The equipment can be fitted with either one or two F2xx-XE Relcom Megablock Fieldbus Connection Blocks, together with certified terminals housed in a sheet steel IP66 rated enclosure.

The sheet steel IP66 rated enclosure (min. size 306mm x 306mm x 160mm) in which the equipment is housed is currently component certified under IECEx BAS 15.0071U for markings of Ex eb IIC Gb and Ex tb IIIC Db. One face of the external wall permits the following entries: an IP66 Ex 'e' certified breather and up to 14 Ex 'e' certified cable glands and / or stopping plugs. Gas only certified models may optionally have the enclosure painted.

The internal construction of the equipment fitted with the following specific components:

Either 1 off F271-XE, 1 off F259-XE, 1 off F253-XE 1 off F251-XE, 2 off F245-XE or 2 off F247-XE Ex eb mb certified Relcom Fieldbus XE Megablock(s) currently afforded Certificate No. IECEx DEK 16.0036U.

Up to 10 off Ex e Terminals of Type WDU2.5 currently afforded Certificate No. IECEx ULD 14.0005U.

The FCS-9512-304xx has the following input parameters:

Rated Input Voltage = 30V d.c.

Rated Current = 1.5A

The 'xx' at the end of the model number can be characters denoting the configuration of the equipment. The differences between the configurations do not affect the certification.

See Additional sheet of the certificate for further equipment details.

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

- 1) Models with a hinged lid shall only be mounted in a vertical orientation, and care is required during installation and when opening the hinged lid, to ensure the enclosure does not distort.
- 2) Cable entry holes shall be fitted with "eb" equipment certified cable glands. The operating temperature range and ingress protection rating of the equipment is limited to those of the fitted glands.
- 3) Unused entry holes shall be fitted with "eb" equipment certified stopping plugs. The operating temperature range and ingress protection rating of the equipment is limited to those of the fitted stopping plugs.
- 4) Only breather/drain devices that are "eb" equipment certified may be fitted. They shall be suitable for the enclosure wall thickness to ensure draining can occur. The operating temperature range and ingress protection rating of the equipment is limited to that of the fitted breather/drain device.
- 5) Only adaptor/reducer devices that are "eb" equipment certified may be fitted. The operating temperature range and ingress protection rating of the equipment is limited to those of the fitted adaptor/reducer devices.
- 6) Unused terminals inside the equipment shall be tightened.



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## Equipment (continued):

The enclosure and its internal components are listed on the table below:

Item	Certificate	Marking	Standards
Enclosure Type XL	IECEx BAS 15.0071U	Ex eb IIC Gb	IEC 60079-0: 2017 7 <sup>th</sup> Edition IEC 60079-7: 2017 Edition 5.1
Recom Fieldbus XE Megablocks	IECEx DEK 16.0036X	Ex eb mb IIC T4 Gb (-45°C ≤ Ta ≤ +70°C)	IEC 60079-0: 2011 Edition 6 IEC 60079-7: 2015 Edition 5 IEC 60079-18: 2014 Edition 4
WDU2.5 Terminals	IECEx ULD 14.0005U	Ex eb IIC Gb	IEC 60079-0: 2017 Edition 7 IEC 60079-7: 2017 Edition 5.1

Where the above certified components forming part of the equipment are certified to different editions of the standards than those listed for the FCS-9512-304-xx, the differences between the editions of the standards listed have been reviewed and determined to have no technical differences affecting the equipment.



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

### Variation 2.1

To update the references to IECEx DEK 16.0036X to IECEx DEK 16.0036U.

### Variation 2.2

To correct the standards editions for the equipment.

ExTR: **GB/BAS/ExTR24.0004/00**

File Reference: **24/0221**