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

Certificate No.: **IECEx BAS 11.0110U**

Certificate history:
Issue 1 (2013-03-13)
Issue 0 (2011-12-06)

Status: **Current**

Issue No: 2

Date of Issue: 2017-12-05

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

Equipment: **F809F & F809F-Plus Foundation Fieldbus Diagnostic Modules**

Optional accessory:

Type of Protection: **Type of Protection 'n'**

Marking: **Ex nA IIC Gc**

Approved for issue on behalf of the IECEx Certification Body: **R. S. Sinclair**

Position: **Technical Manager**

Signature:
(for printed version)

Date:

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 or use of this QR Code.

Certificate issued by:

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

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Certificate No.: **IECEx BAS 11.0110U**

Date of issue: 2017-12-05 Issue No: 2

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

Additional 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 60079-0:2011 Explosive atmospheres - Part 0: General requirements
Edition:6.0

IEC 60079-15:2010 Explosive atmospheres - Part 15: Equipment protection by type of protection "n"
Edition:4

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/ExTR11.0213/00 GB/BAS/ExTR13.0047/00 GB/BAS/ExTR16.0367/00

Quality Assessment Reports:

GB/BAS/QAR06.0022/07 GB/BAS/QAR07.0017/06

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EQUIPMENT:
Equipment and systems covered by this Certificate are as follows:

The F809F & F809F-Plus Foundation Fieldbus Diagnostics Module is designed to monitor the performance of up to eight Fieldbus segments providing information on the network health and capturing re-transmissions between the Fieldbus devices and control system. This information is communicated to the Host System via either one of the eight Fieldbus segments being monitored or via a separate Fieldbus segment.

The components comprise two interconnecting printed circuit boards (PCB's) mounted in a metallic enclosure with external connections via sockets in the base of the enclosure. LED indication is provided along the top of the modules to indicate power-on and status of each of the eight Fieldbus segments. A connector is fitted on top of the modules under a protective cover to permit the configuration of the Fieldbus communication segment (either segment 1 or 8) using a segment selection PCB or permit the connection to the separate Fieldbus segment.

The component is designed to be mounted on a separately certified carrier.

See Certificate Annex for electrical parameters and Schedule of Limitations.

SPECIFIC CONDITIONS OF USE: NO

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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)
Variation 2.1

To permit change of manufacturer name from ‘Measurement Technology Limited’ to ‘Eaton Electric Limited’.

ExTR: **GB/BAS/ExTR16.0367/00** File Reference: **16/0371**

Annex:

IECEx BAS 11.0110U Annex Issue 1.pdf

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ANNEX to IECEx BAS 11.0110U | Issue No. 1 | Date: 2013/03/13

F809F / F809F-Plus Foundation Fieldbus Diagnostic Module

Input Parameters

Power Supply Input: CON 6 Terminals 1, 2 & 6

U_i = 30V d.c.

Monitored Fieldbus Segment Inputs: CON 5 Terminals 1 & 2, 3 & 4, 5 & 6, 7 & 8, 9 & 10, 11 & 12, 13 & 14 and 15 & 16

U_i = 32V d.c.

Fieldbus Communication Segment Input: CON 1 Terminals 3 & 4 and CON 6 Terminals 15 & 16

U_i = 32V d.c.

Schedule of Limitations

1) The component must be installed on a carrier certified against the relevant requirements of IEC 60079-0 & IEC 60079-15. The carrier must provide the required external connection facilities and provide mounting points for the component to be secured to.

2) The component (and associated carrier) must be installed in an enclosure or an environment that provides a degree of protection of at least IP54 and meets the relevant material and environmental requirements of IEC 60079-0 and IEC 60079-15.

3) The component has a maximum surface temperature rise of 56°C.

4) The external connections must be fitted with transient protection devices to ensure that the rated voltage cannot exceed 140% of the peak rated voltage.

5) All connections to the component must not be inserted or removed unless either the area in which the component is installed is known to be non-hazardous, or the circuit to which it is connected has been de-energised.