



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: IECEx BAS 15.0144X issue No.:1

Status: **Current**

Certificate history:
Issue No. 1 (2016-10-26)
Issue No. 0 (2015-12-7)

Date of Issue: 2016-10-26 Page 1 of 5

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

Equipment: **MTL5314 Standard I.S. Trip Amplifier Supply**
Optional accessory:


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

Marking: **Ex nA nC IIC T4 Gc (-20°C ≤ Ta ≤ +60°C)**

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

Position: Technical Manager

Signature:
(for printed version)



26-10-16

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 the [Official IECEx Website](http://www.iecex.com).

Certificate issued by:

SGS Baseefa 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

Additional Manufacturing location(s):

**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 electrical apparatus 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 electrical 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 Report:

GB/BAS/ExTR15.0308/00

GB/BAS/ExTR16.0310/00

Quality Assessment Report:

GB/BAS/QAR06.0022/06

GB/BAS/QAR07.0017/05



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The MTL5314 Standard I.S. Trip Amplifier Supply is designed to connect to a 2 or 3-Wire 4/20mA Transmitter or current source in the hazardous area. It supplies two configurable alarm signals via changeover relays to either the non-hazardous or zone 2 hazardous areas.

The MTL5314 Standard I.S. Trip Amplifier Supply comprises an isolating transformer and two opto-isolators that provide galvanic isolation between the hazardous and non-hazardous area circuitry, and zener diodes and resistors providing voltage and current limitation. The above, together with other electronic components, are mounted on a single printed circuit board (PCB) and housed in a moulded plastic enclosure. Polarised plug and sockets are provided for hazardous and non-hazardous area connections.

This certificate covers the installation of the MTL5314 Standard I.S. Trip Amplifier Supply (IECEx BAS 05.0010) in a Zone 2 location.

See Additional Page for electrical parameters.

CONDITIONS OF CERTIFICATION: YES as shown below:

1) The equipment must be installed in an area of not more than Pollution Degree 2 as defined in IEC 60664-1, and in an enclosure that provides a degree of protection of at least IP54 and meets the relevant requirements of IEC 60079-0 and IEC 60079-15.

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



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EQUIPMENT(continued):

Input / Output Parameters

Power Supply Input - Terminals 13 & 14

Supply Voltage Range = 20 – 35V d.c.

Relay Changeover Outputs – Terminals 7, 8 & 9 and 10, 11 & 12

Relay Contact Ratings = 250V a.c. or 125V d.c., 100VA

Transmitter Inputs

Terminals 1, 2 & 3

Maximum output voltage = 28V d.c.

Terminals 1 w.r.t. 3

Maximum output voltage = 1.0V d.c.

Or

The maximum values for the intrinsically safe circuits have to be taken from IECEx Certificate No. IECEx BAS 05.0010.



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

Variation 1.1

To permit the manufacturer's name to be changed on the certificate and equipment marking. No other changes are made to the equipment design.

ExTR: GB/BAS/ExTR16.0310/00

File Reference: 16/0371