



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 09.0037	Issue No: 6	Certificate history:
Status:	Current	Page 1 of 4	Issue No. 6 (2017-05-02)
Date of Issue:	2017-05-02		Issue No. 5 (2016-10-05)
Applicant:	Eaton Electric Limited Great Marlings Butterfield Luton Bedfordshire LU2 8DL United Kingdom		Issue No. 4 (2014-03-28)
Equipment:	MTL5531 Single Channel & MTL5533 Two Channel Vibration Transducer Interface		Issue No. 3 (2012-08-06)
Optional accessory:			Issue No. 2 (2011-01-31)
Type of Protection:	Intrinsic Safety		Issue No. 1 (2009-11-30)
Marking:	[Ex ia Ga] IIC [Ex ia Da] IIIC [Ex ia Ma] I -20°C ≤ Ta ≤ +60°C		Issue No. 0 (2009-07-02)

Approved for issue on behalf of the IECEx
Certification Body:

R S Sinclair

Position:

Technical Manager

Signature:
(for printed version)

Date:

3-5-17

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](#).

Certificate issued by:

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





IECEX Certificate of Conformity

Certificate No: IECEX BAS 09.0037 Issue No: 6

Date of Issue: **2017-05-02** Page 2 of 4

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
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 60079-11 : 2011 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:6.0

*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/ExTR09.0060/00](#)

[GB/BAS/ExTR09.0214/00](#)

[GB/BAS/ExTR10.0297/00](#)

[GB/BAS/ExTR12.0181/00](#)

[GB/BAS/ExTR14.0065/00](#)

[GB/BAS/ExTR16.0238/00](#)

[GB/BAS/ExTR17.0025/00](#)

Quality Assessment Report:

[GB/BAS/QAR06.0022/06](#)

[GB/BAS/QAR07.0017/06](#)



IECEx Certificate of Conformity

Certificate No: IECEx BAS 09.0037

Issue No: 6

Date of Issue: 2017-05-02

Page 3 of 4

Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The MTL5533 Two Channel Vibration Transducer Interface is designed to restrict the transfer of energy from unspecified apparatus in the non-hazardous area to up to two intrinsically safe vibration transducers by limitation of voltage and current. Two transformers and two opto-isolators provide galvanic isolation between the hazardous and non-hazardous area circuitry.

The apparatus comprises two isolating transformer, two opto-isolators and detection circuits with zener diode and resistor combinations to provide voltage and current limitation. The above, together with other electronic components are mounted on a printed circuit board and housed in a moulded plastic enclosure. Polarised plugs and sockets are provided for hazardous and non-hazardous area connections.

The MTL5531 Single Channel Vibration Transducer Interface is a depopulated version of the MTL5533 with only one channel populated.

See annex for electrical parameters.

SPECIFIC CONDITIONS OF USE: NO



IECEX Certificate of Conformity

Certificate No: IECEx BAS 09.0037

Issue No: 6

Date of Issue: 2017-05-02

Page 4 of 4

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

Variation 6.1

To permit the fitting of a thermal pad on the MTL5531 model not affecting the original assessment.

Variation 6.2

To permit minor component changes not affecting the original assessment.

ExTR: **GB/BAS/ExTR17.0025/00**

File Reference: **17/0052**

Annex:

[IECEX BAS 09.0037 Annex Iss 1.pdf](#)