



# 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](http://www.iecex.com)

Certificate No.: **IECEX BAS 04.0038** . issue No.:1

Certificate history:  
Issue No. 1 (2009-5-6)  
Issue No. 0 (2005-1-31)

Status: **Current**


Date of Issue: **2009-05-06** Page 1 of 4

Applicant: **Measurement Technology Limited**  
Great Marlings  
Butterfield  
Luton  
Bedfordshire  
LU2 8DL  
United Kingdom

Electrical Apparatus: **MTL5046 Isolating Driver, 4-20mA with Smart Communications and Line Fault Detection**  
Optional accessory:

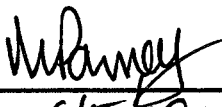
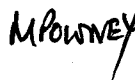
Type of Protection: **Intrinsic Safety**

Marking: **IECEX BAS 04.0038**  
**[Ex ia] IIC (-20°C ≤ Ta ≤ +60°C)**

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

Position: **Managing Director**

Signature:  
(for printed version)

  
\_\_\_\_\_  
**6/5/09** 

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.

Certificate issued by:

**Baseefa**  
**Rockhead Business Park**  
**Staden Lane**  
**Buxton**  
**Derbyshire**  
**SK17 9RZ**  
**United Kingdom**





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Certificate No.: IECEx BAS 04.0038

Date of Issue: 2009-05-06

Issue No.: 1

Page 2 of 4

Manufacturer: **Measurement Technology Limited**  
Great Marlings  
Butterfield  
Luton  
Bedfordshire  
LU2 8DL  
United Kingdom

Manufacturing location(s):  
**MTL Instruments PVT  
Limited**  
No3 Old Mahabalipuram Road  
Sholinganallur  
Chennai  
Tamilnadu  
600 119  
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 : 2000** Electrical apparatus for explosive gas atmospheres - Part 0: General requirements  
Edition: 3.1  
**IEC 60079-11 : 1999** Electrical apparatus for explosive gas atmospheres - Part 11: Intrinsic safety 'i'  
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*

IECEX ATR:  
**UK/BAS/04/0794**

File Reference:  
**04/0794**



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Certificate No.: IECEx BAS 04.0038

Date of Issue: 2009-05-06

Issue No.: 1

Page 3 of 4

## Schedule

### EQUIPMENT:

*Equipment and systems covered by this certificate are as follows:*

An MTL5046 Isolating Driver, 4/20mA, with Smart Communications and Line Fault Detection accepts a 4/20mA signal from a controller located in the safe area to drive a load in the hazardous area. It permits bi-directional transmission of digital signals to and from an operator station or hand-held communicator. The isolator restricts the transfer of energy from unspecified safe-area apparatus to an intrinsically safe circuit by the limitation of voltage and current. Three transformers provide galvanic isolation between the hazardous and non-hazardous area circuitry.

The apparatus comprises of one power transformer, two current transformers, two duplicated zener diodes chains on 2mm track and current limiting resistors 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. Optional polarised plugs and sockets are provided for the hazardous and non-hazardous connections.

For electrical data see Annex.

**CONDITIONS OF CERTIFICATION: NO**



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Certificate No.: IECEx BAS 04.0038

Date of Issue: 2009-05-06

Issue No.: 1

Page 4 of 4

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

### Variation 1.1

This document permits existing information (for example on Schedule Drawings) to be replaced by the revised certificate holders address. No other changes may be made to the certified design.