



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 05.0065 issue No.: 2

Status: **Current**

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

Certificate history:
Issue No. 2 (2009-5-6)
Issue No. 1 (2008-4-2)
Issue No. 0 (2005-11-14)


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

Electrical Apparatus: **MTL5021 / MTL5025 Loop Powered Solenoid / Alarm Driver**
Optional accessory:

Type of Protection: **Intrinsic Safety**

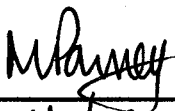

Marking: **IECEx BAS 05.0065**
[Ex ia] IIC
[Ex iaD]
 $-20^{\circ}\text{C} \leq T_a \leq +60^{\circ}\text{C}$

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

Manufacturing location(s):
**MTL Instruments PVT
Limited**
No 3 Old Mahabalipuram
Road
Sholinganallur
Chennai
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 Edition: 3.1	Electrical apparatus for explosive gas atmospheres - Part 0: General requirements
IEC 60079-11 : 1999 Edition: 4	Electrical apparatus for explosive gas atmospheres - Part 11: Intrinsic safety 'I'
IEC 61241-0 : 2004 Edition: 1	Electrical apparatus for use in the presence of combustible dust - Part 0: General requirements
IEC 61241-11 : 2005 Edition: 1	Electrical apparatus for use in the presence of combustible dusts - Part 11: Protection by intrinsic safety 'ID'

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/05/0464/2

File Reference:
05/0464



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The MTL5021 Loop Powered Solenoid / Alarm Driver enables a device located in the hazardous area to be controlled by a switch in the non-hazardous area. The MTL5021 restricts the transfer of energy from the unspecified non-hazardous area apparatus to an intrinsically safe circuit by limitation of voltage and current.

A transformer and an opto-coupler provide galvanic isolation between the hazardous and non-hazardous area circuitry. The output channel is protected by duplicated zener diode chains and a current limiting resistor to provide voltage and current limitation. The above, together with other electronic components are mounted on a single printed circuit board and housed in a moulded plastic enclosure. Polarised plugs and sockets are provided for the hazardous and non-hazardous area connections.

The MTL5025 Loop Powered Solenoid / Alarm Driver is identical to the MTL5021 apart from being fitted with an alternative current limiting resistor to further reduce the output current.

See annex for electrical parameters

CONDITIONS OF CERTIFICATION: NO



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

Variation 2.1

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.