

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 05.0066

issue No.:1

Certificate history:

Status:

Current

Issue No. 1 (2008-4-23) Issue No. 0 (2005-11-

14)

Date of Issue:

2008-04-23

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Applicant:

Measurement Technology Limited

Power Court Luton Bedfordshire LU1 3JJ

United Kingdom

Electrical Apparatus:

Optional accessory:

MTL5022 Loop Powered Solenoid / Alarm Driver

Type of Protection:

Intrinsic Safety

Marking:

IECEx BAS 05.0066

[Ex ia] IIB

-20°C ≤ Ta ≤ +60°C

Approved for issue on behalf of the IECEx

Certification Body:

R S Sinclair

Position:

Signature:

(for printed version)

Date:

Managing Director

This certificate and schedule may only be reproduced in full.
 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

Power Court Luton Bedfordshire LU1 3JJ

United Kingdom

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: 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/05/0464/3

File Reference:

05/0464



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The MTL5022 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 MTL5022 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 current limiting resistors 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.

See annex for electrical parameters

CONDITIONS OF CERTIFICATION: NO



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

Variation 1 1

To permit a minor component change not affecting the original assessment.

EXTR: GB/BAS/EXTR08.0085/00

File Reference: 08/0216

Annexe: IECEx BAS 05.0066 Annex.pdf