



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 05.0018** issue No.: **1**

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

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: **MTL5044 Two Channel Repeater Power Supply 4/20mA and MTL5041 Single Channel Repeater Power Supply 4/20mA**
Optional accessory:



Type of Protection: **Intrinsic Safety**

Marking: **IECEX BAS 05.0018**
[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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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
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'

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/04/0920/2

File Reference:
04/0920



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The MTL5044 Two Channel Repeater Power Supply, 4/20mA provides a common fully floating d.c. supply for energising two conventional 4-20mA transmitters which are located in the hazardous area. It then repeats the current in two independent floating circuits so as to drive loads situated within the safe area. It restricts the transfer of energy from the unspecified safe area apparatus to an intrinsically safe circuit by limitation of voltage and current. Four transformers provide galvanic isolation between the hazardous and non-hazardous area circuitry.

The apparatus comprises two power transformers, two current transformers and two output channels protected by duplicated zener diode chains and current limiting resistors providing 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 the hazardous and non-hazardous area connections.

The MTL5041 Single Channel Repeater Power Supply, 4/20mA is similar to the MTL5044 but only has the components for one channel fitted to the common PCB.

See Annexe for electrical data

CONDITIONS OF CERTIFICATION: NO



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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.