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 05.0020 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: **MTL5015 Two Channel and MTL5012 Single Channel Switch / Proximity Detector Interface with Line Fault Detection & Phase Reversal**

Optional accessory:

Type of Protection: **Intrinsic Safety**

Marking: **IECEx BAS 05.0020**
[Ex ia] IIC
-20°C ≤ Ta ≤ +60°C

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

Position: Managing Director

Signature:
(for printed version)

Date: 6/5/09

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

Baseefa

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Certificate No.: IECEx BAS 05.0020

Date of Issue: **2009-05-06** Issue No.: **1**

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/04/0920/3

File Reference:
04/0920

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Schedule

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

An MTL5015 Two Channel Switch / Proximity Detector Interface with Line Fault Detection and Phase Reversal enables two safe area loads to be controlled by two switches or proximity detectors in the hazardous area. Two floating solid state on/off switches, compatible with logic circuits, are provided for connection in the safe area circuit. The MTL5015 is designed to restrict the transfer of energy from unspecified safe-area apparatus to two independent intrinsically safe circuits by the limitation of voltage and current. LED indication is provided to indicate power-on, line fault and the status of each output. Switches permit the operator to specify the line fault detection and phase reversal requirements.

The MTL5015 apparatus comprises three isolating transformers which provide galvanic isolation between the hazardous and non-hazardous area circuitry and two independent detection circuits each with zener diode / diode / resistance combinations providing 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 hazardous and non-hazardous area connections.

The MTL5012 Single Channel Switch / Proximity Detector Interface with Line Fault Detection and Phase Reversal is similar to MTL5015 but only has the components suitable for one channel fitted to a common PCB.

See Annex 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.

Annexe: IECEx BAS 05.0020 Annex.pdf