



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 09.0056X Issue No: 0 Certificate history:
Issue No. 0 (2009-05-28)

Status: **Current** Page 1 of 3

Date of Issue: **2009-05-28**

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

Electrical Apparatus: **MTL4526 Two Channel Switch-operated Relay Output**
Optional accessory:

Type of Protection: **Type 'n'**

Marking: IECEx BAS 09.0056X
Ex nA nL IIC T4 (-20°C ? Ta ? +60°C)
Ui = 35V d.c.

Approved for issue on behalf of the IECEx
Certification Body:

R.S. Sinclair

Position:

Managing Director

Signature:
(for printed version)

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

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

Additional Manufacturing
location(s):

MTL Instruments PVT Limited
No 3 Old Mahabalipuram Road
Sholinganallur
Chennai 600112
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 : 2004 Electrical apparatus for explosive gas atmospheres - Part 0: General requirements

Edition:4.0

IEC 60079-15 : 2005-03 Electrical apparatus for explosive gas atmospheres Part 15: Construction, test and Marking of Type of Protection "n" electrical apparatus

Edition:3

*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

Test Report:

[GB/BAS/ExTR08.0178/00](#)

Quality Assessment Report:

[GB/BAS/QAR06.0022/01](#)

[GB/BAS/QAR07.0017/01](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The MTL4526 Two Channel Switch-Operated Relay Output is designed to enable two separate circuits to be switched via relay contacts by on/off switches or logic signals from unspecified apparatus. Configuration switches on the apparatus allow the two relay output channels to be alternatively controlled by one input and each input to be loop-powered. The two relays provide galvanic isolation between the hazardous area and other apparatus circuitry.

Each channel of the apparatus comprises a relay, a zener diode and a fuse to provide voltage and current limitation to the relay. 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 external connections to the apparatus. LED Indication is provided for the status of each output channel and power-on.

Input Terminals 8, 9, 10, 11, 13 & 14

Ui = 35V d.c.

Relay Output Terminals 1, 2 & 3 (channel 1) & 4, 5 & 6 (Channel 2)

Ui = 30V d.c.

CONDITIONS OF CERTIFICATION: YES as shown below:

1. The apparatus must be installed in an enclosure or an environment that provides a degree of protection of at least IP54 and meets the relevant material and environmental requirements of IEC 60079-0: 2004 & IEC 60079-15: 2005.
2. All connections to the apparatus must not be inserted or removed unless either the area in which the apparatus is installed is known to be non-hazardous, or the circuit to which it is connected has been de-energised.
3. The circuits connected to the relay contacts via terminals 1, 2 & 3 and 4, 5 & 6 must comply with the energy-limited requirements of Clause 30 of IEC 60079-15: 2005.
4. Any backplane used does not form part of this certificate and shall be separately certified for use in Zone 2.
5. The external backplane must be fitted with two retention clips type MTL 012-533 (Honeywell Part No. 51153961-100) that allow the equipment to be 'clipped' to the backplane. The retention clips shall always be in place when the apparatus is energised.