



# IECEX Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit [www.iecex.com](http://www.iecex.com)

Certificate No.:	<b>IECEX BAS 09.0063</b>	Page 1 of 4	<u>Certificate history:</u>
Status:	<b>Current</b>	Issue No: 7	Issue 6 (2019-10-09)
Date of Issue:	2024-10-11		Issue 5 (2019-09-05)
Applicant:	<b>Michell Instruments Limited</b> Unit 48 Lancaster Way Business Park Ely Cambridge CB6 3NW <b>United Kingdom</b>		Issue 4 (2013-07-22)
Equipment:	<b>MDM100 I.S. &amp; MDM300 I.S. Dew-Point Hygrometers</b>		Issue 3 (2012-02-21)
Optional accessory:			Issue 2 (2011-12-01)
Type of Protection:	<b>Intrinsic Safety</b>		Issue 1 (2011-06-29)
Marking:	<b>Ex ia IIC T4 Ga (-20°C to +50°C)</b>		Issue 0 (2010-04-16)

Approved for issue on behalf of the IECEx  
Certification Body:

**D Brearley**

Position:

**Lead Certification Engineer**

Signature:  
(for printed version)

Date:  
(for printed version)

11/10/2024

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2. This certificate is not transferable and remains the property of the issuing body.
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Certificate issued by:

**SGS UK Limited**  
**Rockhead Business Park**  
**Staden Lane**  
**Buxton, Derbyshire SK17 9RZ**  
**United Kingdom**





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Certificate No.: **IECEX BAS 09.0063**

Page 2 of 4

Date of issue: 2024-10-11

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Manufacturer: **Michell Instruments Limited**  
Unit 48  
Lancaster Way Business Park  
Ely  
Cambridge  
CB6 3NW  
**United Kingdom**

Manufacturing locations: **Michell Instruments Limited**  
Unit 48  
Lancaster Way Business Park  
Ely  
Cambridge  
CB6 3NW  
**United Kingdom**

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 equipment 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 60079-0:2017](#) Explosive atmospheres - Part 0: Equipment - General requirements  
Edition:7.0

[IEC 60079-11:2011](#) Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"  
Edition:6.0

This Certificate **does not** indicate compliance with 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 Reports:

[GB/BAS/ExTR09.0089/03](#)  
[GB/BAS/ExTR11.0289/00](#)  
[GB/BAS/ExTR18.0038/00](#)

[GB/BAS/ExTR09.0128/00](#)  
[GB/BAS/ExTR12.0039/00](#)  
[GB/BAS/ExTR19.0256/00](#)

[GB/BAS/ExTR11.0151/00](#)  
[GB/BAS/ExTR13.0156/00](#)  
[GB/SGS/ExTR24.0168/00](#)

### Quality Assessment Report:

[GB/BAS/QAR07.0018/13](#)



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Certificate No.: **IECEX BAS 09.0063**

Page 3 of 4

Date of issue: 2024-10-11

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## **EQUIPMENT:**

Equipment and systems covered by this Certificate are as follows:

The MDM100 I.S. and MDM300 I.S. are portable Dew-Point Hygrometers. They comprise electronic circuitry powered by a rechargeable battery pack, a front panel LCD, custom rubber keypad and a humidity sensor that is connected to using rear panel pipe connections.

The MDM100 I.S. & MDM300 I.S. also accept signals from an external 4-20mA dewpoint sensor that connects via a connector on the rear panel.

The terminal parameters for the equipment are:

### Charging Socket

$$U_m = 18V$$

The MDM100 I.S. and MDM300 I.S are designed to be charged from a charger with an output of no greater than 18V d.c.

### External Sensor Socket

$$U_i = 28V$$

$$I_i = 93mA$$

$$P_i = 650mW$$

$$P_o = 0$$

$$C_i = 0$$

$$L_i = 0$$

The external Sensor Socket is designed to connect to an externally powered 4-20mA loop.

**SPECIFIC CONDITIONS OF USE: NO**



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Certificate No.: **IECEX BAS 09.0063**

Page 4 of 4

Date of issue: 2024-10-11

Issue No: 7

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

### Variation 7.1

To permit minor drawing and product changes not affecting the original assessment.

### Variation 7.2

To change the product name.

ExTR: **GB/SGS/ExTR24.0168/00**

File Reference: **24/0381**