



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

Certificate No.: **IECEX BAS 09.0063**

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Certificate history:

Status: **Current**

Issue No: 6

Issue 5 (2019-09-05)

Issue 4 (2013-07-22)

Issue 3 (2012-02-21)

Issue 2 (2011-12-01)

Issue 1 (2011-06-29)

Issue 0 (2010-04-16)

Date of Issue: **2019-10-09**

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

Equipment: **MDM100 I.S & MDM300 I.S. Portable Dewpointmeters**

Optional accessory:

Type of Protection: **Intrinsic Safety**

Marking: **Ex ia IIC T4 Ga (-20°C to +50°C)**

Approved for issue on behalf of the IECEx
Certification Body:

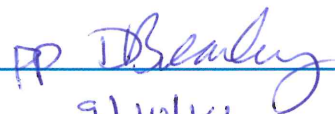
R S Sinclair

D BREARLEY
Certification
Manager

Position:

General Manager

Signature:
(for printed version)



9/10/14

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 www.iecex.com or use of this QR Code.



Certificate issued by:

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





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

Additional
manufacturing
locations:

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/ExTR11.0151/00](#)
[GB/BAS/ExTR12.0039/00](#)
[GB/BAS/ExTR09.0089/03](#)

[GB/BAS/ExTR11.0289/00](#)
[GB/BAS/ExTR09.0128/00](#)
[GB/BAS/ExTR18.0038/00](#)

[GB/BAS/ExTR19.0256/00](#)
[GB/BAS/ExTR13.0156/00](#)

Quality Assessment Report:

[GB/BAS/QAR07.0018/09](#)



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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 dewpointmeters. 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.

Terminal parameters are shown in the certificate annex.

SPECIFIC CONDITIONS OF USE: NO



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Variation 6.1

To permit a component change and an administrative drawing change.

ExTR: GB/BAS/ExTR19.0256/00	File Reference: 19/0529
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Annex:

Annex to [IECEX BAS 09.0063 Issue 1 Annex.pdf](#)

SGS Baseefa Limited
Rockhead Business Park
Staden lane, Buxton, Derbyshire
SK17 9RZ
United Kingdom



ANNEX to IECEx BAS 09.0063

Issue No. 1

Date: 03 September 2019

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

$$\begin{aligned}U_i &= 28V \\i &= 93mA \\P_i &= 650mW \\P_o &= 0 \\G &= 0 \\L_i &= 0\end{aligned}$$

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