

1 **UK-TYPE EXAMINATION CERTIFICATE**

2 **Equipment or Protective System Intended for use in Potentially Explosive Atmospheres
UKSI 2016:1107 (as amended) – Schedule 3A, Part 1**

- 3 UK-Type Examination Certificate Number: **BAS21UKEX0015 Issue 1**
- 4 Product: **MDM100 I.S. & MDM300 I.S. Dew-Point Hygrometers**
- 5 Manufacturer: **Michell Instruments Ltd.**
- 6 Address: **Unit 48, Lancaster Way Business Park, Ely, Cambs., CB6 3NW United Kingdom**
- 7 This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
- 8 SGS Baseefa (a division of SGS United Kingdom Limited), Approved Body number 1180, in accordance with Regulations 42 and 43 of the Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres Regulations 2016, UKSI 2016:1107 (as amended), certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Schedule 1 of the Regulations.
- 8.1 The BAS prefix to the Certificate Number indicates that the certificate was issued by SGS Baseefa Ltd. prior to the change of entity to SGS United Kingdom Limited. Such certificates remain valid with their original number.
- The examination and test results are recorded in a confidential report identified in the revision table at item 20.
- 9 Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
EN IEC 60079-0: 2018 EN 60079-11: 2012
- except in respect of those requirements listed at item 18 of the Schedule.
- 10 If the sign “X” is placed after the certificate number, it indicates that the product is subject to the Specific Conditions of Use specified in the schedule to this certificate.
- 11 This UK-TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified product. Further requirements of the Regulations apply to the manufacturing process and supply of this product. These are not covered by this certificate.
- 12 The marking of the product shall include the following:

 II 1G Ex ia IIC T4 Ga (-20°C ≤ Ta ≤ +50°C)

SGS Customer Reference No. **4014**

Project File No. **24/0381**

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SGS Baseefa

(a division of SGS United Kingdom Limited)

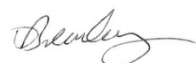
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D BREARLEY
LEAD CERTIFICATION ENGINEER
On behalf of SGS United Kingdom Limited

13 **Schedule**

14 **Certificate Number BAS21UKEX0015 – Issue 1**

15 **Description of Product**

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.

They 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.

16 **Report Number**

See Item 20 – Certificate History

17 **Specific Conditions of Use**

None.

18 **Essential Health and Safety Requirements**

In addition to the Essential Health and Safety Requirements (EHSRs) covered by the standards listed at item 9, the following are considered relevant to this product:

Clause	Subject	Compliance
13	Protection against other hazards (LVD type requirements, etc.)	Manufacturer responsibility
21 (1)	External effects	User/Installer responsibility
21 (2)	Aggressive substances, etc.	User/Installer responsibility

19 **Drawings and Documents**

Other than for Issue 0, Drawings and Documents that are introduced at a new edition of the certificate are marked with an asterisk symbol:

Number	Sheet	Issue	Date	Description
Ex90412	1 to 25	10	31/07/24	*MDM300 I.S. DEW-POINT HYGROMETER ATEX/IECE _x /UKCA CERTIFICATION DRAWING

For a complete list of drawings controlling the construction of the equipment refer to Baseefa09ATEX0149 Issue 7

20 Certificate History

Certificate No.	Date	Comments
BAS21UKEX0015 Issue 0	12 February 2021	Prime Certificate Report Number: 20(C)0642/02 Project Number: 20/0642 Original issue of the certificate
BAS21UKEX0015 Issue 1	11 October 2024	To permit minor drawing and product changes not affecting the original assessment. Product name has been changed. Report Number: GB/SGS/ExTR24.0168/00. Project Number: 24/0381.

For drawings applicable to each issue, see original of that issue.