

UK-TYPE EXAMINATION CERTIFICATE

Equipment or Protective System Intended for use in Potentially Explosive Atmospheres UKSI 2016:1107 (as amended by UKSI 2019:696) – Schedule 3A, Part 1

- 1 UK-Type Examination Certificate Number: **BAS21UKEX0015**
- 2 Product: **MDM100 I.S. & MDM300 I.S. Portable Dewpointmeters**
- 3 Manufacturer: **Michell Instruments Limited**
- 4 Address: **Unit 48, Lancaster Way Business Park, Ely, Cambs., CB6 3NW United Kingdom**
- 5 This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
- 6 SGS Baseefa, Approved Body number 1180, in accordance with Regulation 43 of the Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres Regulations 2016, UKSI 2016:1107 (as amended by UKSI 2019:696), 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.
- 7 The examination and test results are recorded in confidential Report No. **20(C)0642/02**
- 8 Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
EN IEC 60079-0: 2018 EN 60079-11: 2011
except in respect of those requirements listed at item 18 of the Schedule.
- 9 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.
- 10 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.
- 11 The marking of the product shall include the following:

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

SGS Baseefa Customer Reference No. **4014**

Project File No. **20/0642**

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D BREARLEY
Certification
Manager

R S SINCLAIR

TECHNICAL MANAGER

On behalf of SGS Baseefa Limited

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Schedule

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Certificate Number BAS21UKEX0015

15 Description of Product

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.

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

20(C)0642/02

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, and conformity is demonstrated in the report:

Clause	Subject
1.2.7	LVD type requirements
1.2.8	Overloading of equipment (protection relays etc.)
1.4.1	External effects
1.4.2	Aggressive substances, etc

19 Drawings and Documents

Number	Sheet	Issue	Date	Description
Ex90412	1 to 25	09	11/02/21	MDM300IS ATEX & IECEX Certification Drawing
Baseefa09ATEX0149				
IECEX BAS 09.0063				