

1 **UK-TYPE EXAMINATION CERTIFICATE**

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

3 UK-Type Examination Certificate Number: **BAS21UKEX0014X**

4 Product: **Easidew I.S, Easidew Pro I.S. & PURA I.S.**

5 Manufacturer: **Michell Instruments Limited**

6 Address: **Unit 48, Lancaster Way Business Park, Ely, Cambs., CB6 3NW**

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, 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.

The examination and test results are recorded in confidential Report No. **20(C)0642/01**

9 Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 60079-0: 2012 + A11: 2013 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 1 G Ex ia IIC T4 Ga (-20 °C ≤ Ta ≤ +70 °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

13

Schedule

14

Certificate Number BAS21UKEX0014X

15 Description of Product

The Easidew I.S, Easidew Pro I.S and PURA I.S are 4-20mA output loop powered dewpoint sensors.

The apparatus comprises two PCBs housed in a small metal enclosure, a humidity sensor that extends from the metal enclosure and a 4 way plug and socket. The enclosure screws into a pipe or vessel so that the humidity sensor is in the medium to be measured. The 4 way plug and socket contains two 4-20mA loop connections, one RS485/earth connection and one RS485 connection.

The hazardous area connections are as follows:

Easidew I.S and PURA I.S.

The 4-20mA loop connections are terminals 1 & 3.

The earth terminal is marked with an earth symbol.

Easidew Pro I.S

The 4-20mA loop connections are terminals 2 & 4.

The earth terminal is terminal 3.

The input parameters for all variants are:

$$\begin{aligned}U_i &= 28V \\I_i &= 93mA \\P_i &= 820mW \\C_i &= 37nF \\L_i &= 0\end{aligned}$$

16 Report Number

20(C)0642/01

17 Specific Conditions of Use

1. The wiring connections to the Dewpoint Transmitter free socket must be made via crimped connectors in such a way that all the strands of the wire used are held securely by the crimp.
2. The Dewpoint Transmitter plastic plug and socket create a potential for electrostatic discharge so must not be rubbed with a dry cloth or cleaned with solvents.
3. The Dewpoint Transmitter does not withstand the 500Vac insulation test to frame and this must be taken into account on installation.

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

Clause	Subject
1.4.2	Aggressive substances, etc

19 Drawings and Documents

Number	Sheet	Issue	Date	Description
Ex 90347	1 - 7	10	01.12.20	Easidew I.S 2-Wire Transmitter. ATEX IECEX UKEX certification drawing.
Baseefa06ATEX0330X				
IECEX BAS 06.0090X				