

1 **EU - TYPE EXAMINATION CERTIFICATE**

2 **Equipment or Protective System Intended for use in Potentially Explosive Atmospheres
Directive 2014/34/EU**

3 EU - Type Examination Certificate **Baseefa06ATEX0330X – Issue 6**
Number:

3.1 In accordance with Article 41 of Directive 2014/34/EU, EC-Type Examination Certificates referring to 94/9/EC that were in existence prior to the date of application of 2014/34/EU (20 April 2016) may be referenced as if they were issued in accordance with Directive 2014/34/EU. Supplementary Certificates to such EC-Type Examination Certificates, and new issues of such certificates, may continue to bear the original certificate number issued prior to 20 April 2016.

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

5 Manufacturer: **Michell Instruments Limited**

6 Address: **Ely, Cambridgeshire, CB6 3NW**

7 This re-issued certificate extends EC Type Examination Certificate No. Baseefa06ATEX0330X to apply to product designed and constructed in accordance with the specification set out in the Schedule of the said certificate but having any variations specified in the Schedule attached to this certificate and the documents therein referred to.

8 SGS Fimko Oy, Notified Body number 0598, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, 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 Annex II to the Directive.

8.1 The original certificate was issued by SGS Baseefa Ltd (UK Notified Body 1180). It, and any supplements previously issued by SGS Baseefa Ltd have been transferred to the supervision of SGS Fimko Oy (EU Notified Body 0598). The original certificate number is retained.

The examination and test results are recorded in confidential Report No. **See Certificate History.**

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 EU - TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified product. Further requirements of the Directive 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 ≤ +70°C)

SGS Fimko Oy Customer Reference No. **4014**

Project File No. **19/0308**

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Authorised Signatory for SGS Fimko Oy

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Schedule

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Certificate Number Baseefa06ATEX0330X – Issue 6

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:

$$U_i = 28V$$

$$I_i = 93mA$$

$$P_i = 820mW$$

$$C_i = 37nF$$

$$L_i = 0$$

16 Report Number

See Certificate History

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
1.4.1	External effects
1.4.2	Aggressive substances, etc.

19 Drawings and Documents

New drawings submitted for this issue of certificate:

Number	Sheet	Issue	Date	Description
Ex 90347	1 - 7	9	29.05.19	Easidew I.S 2-Wire Transmitter. ATEX & IECEX certification drawing.

Current drawings which remain unaffected by this issue:

Number	Sheet	Issue	Date	Description
None				

None

These drawings are common to, and held with, IECEX BAS 06.0090X.

20 Certificate History

Certificate No.	Date	Comments
Baseefa06ATEX0330X	3 December 2003	The release of the prime certificate. The associated test and assessment against the requirements of EN 50079-0:2004 is documented in Test Report No. 06(C)0372.
Baseefa06ATEX0330X/1	19 March 2009	To permit the use of a variant known as 'Easidew PRO I.S', having different terminal connections. Project 09/0005.
Baseefa06ATEX0330X/2	25 August 2011	To permit an increase in the upper ambient temperature from 60°C to 70°C. Manufacturer address updated to Ely, Cambridgeshire, CB6 3NW. Report number GB/BAS/ExTR11.0177/00 for project 11/0475
Baseefa06ATEX0330X/3	29 October 2012	To confirm that the current design of the equipment meets the requirements of EN 60079-0: 2012 and EN 60079-11:2012. The marking is updated to include the EPL Ga. Report GB/BAS/ExTR12.247/00 for Project 12/0781.
Baseefa06ATEX0330X/04	02 December 2013	To permit minor PCB changes and the addition of a label for identification of the terminals of PL2. Report GB/BAS/ExTR13.0281/00 for Project 13/0905.
Baseefa06ATEX0330X Issue 5	18 October 2017	This issue of the certificate incorporates previously issued primary & supplementary certificates into one certificate and permits inclusion of a new model variant known as the PURA I.S Dewpoint Transmitter and an increase in the Pi parameter from 651mA to 820mA. To confirm the current designs of the Easidew I.S. Dewpoint Transmitter / Easidew Pro I.S Dewpoint Transmitter / PURA I.S Dewpoint Transmitter have been reviewed against the requirements of EN 60079-0: 2012 + A11: 2013 in respect of the differences from EN 60079-0: 2012, and none of the differences affect the equipment. The ATEX Directive has been updated to 2014/34/EU. Report GB/BAS/ExTR17/0305/00 for Project 17/0629.
Baseefa06ATEX0330X Issue 6	17 July 2019	To permit a minor change to the product name and administrative changes to the label drawing. Report GB/BAS/ExTR19.0165/00 for Project 19/0308

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