



1 **EC - TYPE EXAMINATION CERTIFICATE**

2 **Equipment or Protective System Intended for use in Potentially Explosive Atmospheres
Directive 94/9/EC**

3 EC - Type Examination Certificate Number: **Baseefa06ATEX0330X**
4 Equipment or Protective System: **Easidew I.S. Dewpoint Transmitter**
5 Manufacturer: **Michell Instruments Limited**
6 Address: **Nuffield Close, Cambridge, CB4 1SS.**

7 This equipment or protective system and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

8 Baseefa (2001) Ltd., Notified Body number 1180, in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential Report No. **06(C)0372**

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

EN60079-0:2004 **EN50020:2002**

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 equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.

11 This EC - TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified equipment or protective system. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this certificate.

12 The marking of the equipment or protective system shall include the following :

⊕ II 1 G Ex ia IIC T4 (-20°C ≤ T_a ≤ +60°C)

This certificate may only be reproduced in its entirety, without any change, schedule included.

Baseefa Customer Reference No. **4014**

Project File No. **06/0372**

This certificate is granted subject to the general terms and conditions of Baseefa (2001) Ltd. It does not necessarily indicate that the equipment may be used in particular industries or circumstances.

Baseefa

Rockhead Business Park, Staden Lane,
Buxton, Derbyshire SK17 9RZ
Telephone +44 (0) 1298 766600 Fax +44 (0) 1298 766601
e-mail info@baseefa.com web site www.baseefa.com
Baseefa is a trading name of Baseefa (2001) Ltd
Registered in England No. 4305578 at the above address


R S SINCLAIR
DIRECTOR
On behalf of
Baseefa (2001) Ltd.



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Schedule

14

Certificate Number Baseefa06ATEX0330X

15 Description of Equipment or Protective System

The Easidew I.S. Dewpoint transmitter is a 4-20mA output loop powered dewpoint sensor.

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 4-20mA loop connections may be made to terminals 1 & 3 only:

$U_i = 28V$
 $I_i = 93mA$
 $P_i = 651mW$
 $C_i = 37nF$
 $L_i = 0$

16 Report Number

06(C)0372

17 Special Conditions for Safe Use

- 1 The wiring connections to the 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 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 Easidew I.S. Dewpoint Transmitter does not withstand the 500Vac insulation test to frame. This must be taken into account when installing the equipment.

18 Essential Health and Safety Requirements

All relevant Essential Health and Safety Requirements are covered by the standards listed at item 9.

19 Drawings and Documents

| Number | Sheet | Issue | Date | Description |
|-----------|-------|-------|----------|---|
| Ex90347 | 1 | 01 | 29/01/07 | Easidew I.S. 2-Wire Transmitter. ATEX & IECEX Certification Drawing |
| Ex90347 | 2 | 01 | 29/01/07 | Easidew I.S. 2-Wire Transmitter. ATEX & IECEX Certification Drawing |
| Ex90347 | 3 | 01 | 29/01/07 | Easidew I.S. 2-Wire Transmitter. Processor & Connector P.C.B. Track Layouts. ATEX & IECEX Certification Drawing |
| Ex90347PL | 1 & 2 | 01 | 09/01/07 | Easidew I.S. 2-Wire Transmitter. ATEX Certification |

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