



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: **Baseefa03ATEX0090X**

4 Equipment or Protective System: **CERMAX I.S. PORTABLE DEWPOINTMETER**

5 Manufacturer: **MICHELL INSTRUMENTS LTD**

6 Address: **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. 03(C)0132

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

**EN50014:1997 + Amds 1 & 2 EN50020:2002 EN50284:1999**

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 1G EEx ia IIC (155°C) T3**

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

Baseefa (2001) Ltd. Customer Reference No. 4014

Project File No.03/0132

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.

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

**Baseefa (2001) Ltd.**  
Health and Safety Laboratory Site, Harpur Hill,  
Buxton, Derbyshire SK17 9JN  
Telephone +44 (0) 1298 28255 Fax +44 (0) 1298 28216  
e-mail [info@baseefa2001.biz](mailto:info@baseefa2001.biz) web site [www.baseefa2001.biz](http://www.baseefa2001.biz)  
Registered in England No. 4305578 at 13 Dovedale Crescent, Buxton,  
Derbyshire, SK17 9BJ



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## Schedule

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### Certificate Number Baseefa03ATEX0090X

#### 15 Description of Equipment or Protective System

A CERMAX I.S. Portable Dewpointmeter is a battery powered hand held instrument designed to determine moisture content within a gaseous environment.

The Dewpointmeter has a painted plastic enclosure containing an LCD display, keypad, printed circuit boards, a battery pack and a sensor with an active capacitive element. The removable battery pack contains two rechargeable sealed lead acid cells type Cyclon 2.5Ah, D-size. The output parameters of the battery are  $U_o = 5.34V$  &  $I_o = 375mA$ .

A facility for communicating RS232 data to external equipment, via an electro-optical cable, is provided at the D-type connector behind a fixed cover. This connector has  $U_m = 253V$ .

External connections for the gas sample are made at the input and output ports.

#### 16 Report Number

03(C)0132

#### 17 Special Conditions for Safe Use

1. The apparatus is fitted with an aluminium label which must be protected against impact and friction.

#### 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
Ex90086	1	02	28.02.03	General assembly
Ex80342	1	01	19.05.98	Battery pack assembly parts list
Ex80340/C	1 & 2	02	14.08.98	Circuit
Ex80340	1 to 5	02	14.08.98	Main PCB parts list
Ex61050T1	1	01	01.05.98	Main PCB track layout
Ex61050T2	2	01	01.05.98	Main PCB Track layout
Ex80321/C	1	01	02.07.97	Switch PCB circuit
Ex80321	1	01	02.07.97	Switch PCB component layout
Ex80320	1	01	02.07.97	Sensor



1 **SUPPLEMENTARY EC - TYPE EXAMINATION CERTIFICATE**

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

3 Supplementary EC - Type Examination Certificate Number: **Baseefa03ATEX0090X/1**

4 Equipment or Protective System: **Cermax I.S. Portable Dewpointmeter**

5 Manufacturer: **Michell Intruments Ltd**

6 Address: **Ely, Cambridge, CB6 3NW (formerly Cambridge, CB4 1SS)**

7 This supplementary certificate extends EC – Type Examination Certificate No. Baseefa03ATEX0090X to apply to equipment or protective systems 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.

This supplementary certificate shall be held with the original certificate.

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

Baseefa Customer Reference No. **4014**

Project File No. **10/0683**

This certificate is granted subject to the general terms and conditions of Baseefa. 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](mailto:info@baseefa.com) web site [www.baseefa.com](http://www.baseefa.com)  
Baseefa is a trading name of Baseefa Ltd  
Registered in England No. 4305578. Registered address as above.

A handwritten signature in blue ink, appearing to read "R S Sinclair".

R S SINCLAIR  
DIRECTOR  
On behalf of  
Baseefa



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## Schedule

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Certificate Number Baseefa03ATEX0090X/1

15 Description of the variation to the Equipment or Protective System

### Variation 1.1

To permit the use of an alternative sensor printed circuit board.

16 Report Number

None.

17 Special Conditions for Safe Use

None additional to those listed previously

18 Essential Health and Safety Requirements

Compliance with the Essential Health and Safety Requirements is not affected by this variation.

19 Drawings and Documents

Number	Sheet	Issue	Date	Description
Ex80796-T	1	01	11/08/10	Cermax I.S. ATEX Certification Drawing. Sensor PCB Details



1 **SUPPLEMENTARY EC - TYPE EXAMINATION CERTIFICATE**

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

3 Supplementary EC - Type Examination Certificate Number: **Baseefa03ATEX0090X/2**

4 Equipment or Protective System: **Cermax I.S. Portable Dewpointmeter**

5 Manufacturer: **Michell Instruments Ltd**

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

7 This supplementary certificate extends EC – Type Examination Certificate No. Baseefa03ATEX0090X to apply to equipment or protective systems 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.

This supplementary certificate shall be held with the original certificate.

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

Baseefa Customer Reference No. **4014**

Project File No. **11/0128**

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**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](mailto:info@baseefa.com) web site [www.baseefa.com](http://www.baseefa.com)  
Baseefa is a trading name of Baseefa Ltd  
Registered in England No. 4305578. Registered address as above.

A handwritten signature in black ink, appearing to read "P P D Brearley".

PP D BREARLEY

R S SINCLAIR

DIRECTOR  
On behalf of  
Baseefa



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## Schedule

14

Certificate Number Baseefa03ATEX0090X/2

15 Description of the variation to the Equipment or Protective System

### Variation 2.1

To permit minor electrical changes that do not affect the existing certification.

16 Report Number

None.

17 Special Conditions for Safe Use

None additional to those listed previously

18 Essential Health and Safety Requirements

Compliance with the Essential Health and Safety Requirements is not affected by this variation.

19 Drawings and Documents

Number	Sheet	Issue	Date	Description
Ex 80340	1 to 5	03	28/01/11	Cermax I.S. Main PCB