



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 LS. 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 IG 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.

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



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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