



1 **EC-TYPE EXAMINATION CERTIFICATE**

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

5 EC-Type Examination Certificate Number : **BAS01ATEX1240X**

6 Equipment or Protective System: **TRANSMET LS. DEWPOINT TRANSMITTER**

7 Manufacturer: **MICHELL INSTRUMENTS LIMITED**

8 Address: **Cambridge, CB4 1SS**

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

10 The Electrical Equipment Certification Service, notified body number 600 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 N°

01(C)0185 dated 2 August 2001

11 Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
EN 50014: 1997 + Amds 1 & 2 **EN 50020: 1994** **EN 50284: 1999**
except in respect of those requirements listed at item 18 of the Schedule.

12 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.

13 This EC-TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified equipment or protective system. If applicable, further requirements of this Directive apply to the manufacture and supply of this equipment or protective system.

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

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

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

File No: **EECS 4014/02/003**

This certificate is granted subject to the general conditions of the Electrical Equipment Certification Service. It does not necessarily indicate that the apparatus may be used in particular industries or circumstances.



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I M CLEARE
DIRECTOR
14 August 2001



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Schedule

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Description of Equipment or Protective System

The **Transmet L.S. Dewpoint Transmitter** is a self contained 3-wire transmitter designed to be installed into pipework systems for the purpose of determining the moisture content of gases flowing within those pipelines.

The apparatus comprises a printed circuit board (PCB) containing electronic components connected to a capacitive sensor and to a temperature sensor all housed in a metal enclosure. The measurement sensor and the temperature measurement thermistor are protected by a stainless steel sintered guard which projects into the gas stream.

External electrical connections are made via an 8-way terminal block accessible under a screw-on lid. Access for the cable is provided by a suitable cable gland fitted into the side wall of the enclosure. The screw-on lid has an O-ring for sealing purposes.

Input Parameters

Terminals 6 and 8 wrt 5 of TB1

$U_i = 28V$

$I_i = 200mA$

$P_i = 0.85W$

$C_i = 0.052\mu F$

$L_i = 0$

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Special Conditions For Safe Use

1. The apparatus is not capable of withstanding the 500V electric strength test required by Clause 6.4.12 of EN 50020: 1994 and this must be taken into consideration when installing the apparatus.
2. The screen of the interconnecting cable may also be connected to the frame of the apparatus. This must be taken into consideration when installing the apparatus.
3. The wiring within the terminal chamber must be adequately insulated to give at least 0.5mm solid insulation between the cores connected to TB1 and the components on the printed circuit board.
4. The outer enclosure may contain light metals and, therefore, the apparatus must be installed in such a manner as to prevent the possibility of it being subjected to impacts.



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Schedule

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18. Essential Health and Safety Requirements

ESSENTIAL HEALTH & SAFETY REQUIREMENTS not covered by standards listed in Section 9		
Clause	Subject	Compliance
1.1.3	Changes in characteristics of materials and combinations thereof	Report No 01(C)0185 Clause 5.1.1.3
1.2.2	Components for incorporation or replacement	Report No 01(C)0185 Clause 5.1.2.2
1.2.5	Additional means of protection	Report No 01(C)0185 Clause 5.1.2.5
1.2.7	Protection against other hazards	Report No 01(C)0185 Clause 5.1.2.7
1.4.2	Withstanding attack by aggressive substances	Report No 01(C)0185 Clause 5.1.4.2

19 DRAWINGS

Number	Issue	Date	Description
Ex90186	03	01.08.01	General assembly
Ex80339/C	02	01.08.01	Circuit diagram
Ex80339 Sheets 1 and 2	02	01.08.01	Parts list
Ex61072	01	15.06.98	PCB details

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BASEEFA List Keywords
2TRANSMI