



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 **Baseefa03ATEX0197**
Certificate Number:

4 Equipment or Protective System: **SENSOR SERIES IS2000**

5 Manufacturer: **AV TECHNOLOGY LIMITED**

6 Address: **Stockport, Cheshire, SK3 0XU**

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. **02(C)0461**

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

EN 50014: 1997 + Amds 1 & 2 EN 50020: 2002 EN 50284: 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 :

e II 1G EEx ia IIC T6 (-20°C ≤ T_a ≤ 80°C)

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

Baseefa (2001) Ltd. Customer Reference No. **0098**

Project File No. **02/0470**

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.



Schedule

14 **Certificate Number Baseefa03ATEX0197**

Description of Equipment or Protective System

15

A Sensor Series IS2000 is designed to detect acoustic emission signals by contact with the test surface.

The apparatus comprises a piezoelectric sensor element a coil, two diodes and two zener diodes, all encapsulated in brass housing. The brass housing is encased in a layer of polyurethane to provide isolation from ground. The sensor may be fitted with an alternative inductor and lower voltage zener diodes thus creating Sensor Series IS2000 Mk6.

Electrical connection is made via an integral cable.

Input Parameters

$I_i = 30\text{mA}$

$P_i = 0.1\text{W}$

$C_i = 0$

$L_i = 0$

Report Number

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Special Conditions for Safe Use

17

None

Essential Health and Safety Requirements

18

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

Drawings and Documents

19

Number	Issue	Date	Description
02/1841/01/0002	2	20.6.03	General assy, Sensor IS2000
02/P54/01/0002	2	20.6.03	General assy, Sensor IS2000 MK6
02/1841/02/0001	2	20.6.03	Label, Sensor IS2000