



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: **Baseefa04ATEX0303X**
- 4 Equipment or Protective System: **SLP Series Surge Protection Devices**
- 5 Manufacturer: **Atlantic Scientific Corporation (MTL Global Surge Technologies)**
- 6 Address: **4300 Fortune Place, Suite A, W. Melbourne,
Florida 32904, USA**

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. **04(C)0055**

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

EN 50014: 1997 + A1 & A2 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 :

⊕ II 1G EEx ia IIC T4 (-30°C ≤ T_a ≤ See Schedule)

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

Baseefa (2001) Ltd. Customer Reference No. **5229**

Project File No. **04/0055**

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.

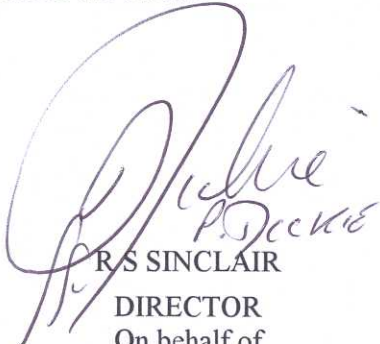
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R.S. SINCLAIR
DIRECTOR
On behalf of
Baseefa (2001) Ltd.

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Schedule

14

Certificate Number Baseefa04ATEX0303X

15 Description of Equipment or Protective System

The SLP Series Surge Protection Devices are designed to provide protection for sensitive electronic equipment, and it is intended to be mounted within a Hazardous Area. Three different break-over voltages, SLP07D - 7V, SLP16D - 16V and SLP32D - 32V are available but all units have the same safety input parameters for intrinsic safety purposes. Each unit has four active channels and an earth connection, but all channels must form part of the same intrinsically safe circuit.

The units comprise four series resistors, four diode bridge circuits, two 3-terminal gas discharge tubes and one or two silicon avalanche diodes mounted on a printed circuit board. This assembly is housed within an MTL7700 Series plastic enclosure, which is provided with four input and four output terminals in addition to a base spring, which provides the earth connection and the mounting for a DIN earthing rail. The lower part of the enclosure is encapsulated to consolidate the mounting arrangement.

All units are marked $\text{\textcircled{E}}\text{x}$ II 1 G EEx ia IIC T4 For the Ambient Temperature limits, see below.

The parameters for all SLP Series Surge Protection Devices are:-

Input : Field Terminals 1 to 4

$$U_i = 60\text{V}$$

$$P_i = 1\text{W} \quad (-30^\circ\text{C} \leq T_a \leq 80^\circ\text{C}) \text{ or}$$

$$P_i = 1.2\text{W} \quad (-30^\circ\text{C} \leq T_a \leq 60^\circ\text{C}) \text{ or}$$

$$P_i = 1.3\text{W} \quad (-30^\circ\text{C} \leq T_a \leq 40^\circ\text{C})$$

$$C_i = 0$$

$$L_i = 0$$

Output : Surge Protected Terminals 5 to 8

$$U_o = U_i$$

$$I_o = I_i$$

$$P_o = P_i$$

16 Report Number

04(C)0055

17 Special Conditions for Safe Use

1. The plastic enclosure may present an electrostatic risk and must not be rubbed with a dry cloth or cleaned with solvents.
2. The SLP Series Surge Protection Devices will not meet the 500V insulation requirements to earth, therefore suitable precautions must be taken when installing the apparatus.

18 Essential Health and Safety Requirements

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



19 Drawings

Number	Sheet	Issue	Date	Description
1100437	1	-	11 Aug 2004	Index Sheet
1100437	2	-	11 Aug 2004	Circuit Diagram
1100437	3	-	11 Aug 2004	Component Layout
1100437	4	-	11 Aug 2004	Enclosure
1100437	5	-	11 Aug 2004	Certification Label
1100437	6	-	11 Aug 2004	Terminal Label