



**EC - TYPE EXAMINATION CERTIFICATE**

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

- 3 EC - Type Examination Certificate Number: **Baseefa06ATEX0035X**
- 4 Equipment or Protective System: **TP-P\*\*-\*-NDI Range of 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. **06(C)0068**
- 9 Compliance with the Essential Health and Safety Requirements has been assured by compliance with:  
**EN 50014: 1997 + Amendments 1 and 2**  
**EN 50018: 2000 + Amendment 1**  
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 2 G EEx d IIC T4/T5/T6 Ta\* \* see schedule**

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

Baseefa Customer Reference No. **5229**

Project File No. **06/0068**

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**

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 (2001) Ltd  
Registered in England No. 4305578 at the above address

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

13

## Schedule

14

Certificate Number Baseefa06ATEX0035X

### 15 Description of Equipment or Protective System

The TP-P\*\*-\*-NDI Series Surge Protection Devices are designed to provide protection for sensitive electronic equipment, and are designed to be mounted within a hazardous area.

Within the TP-P\*\*-\*-NDI series of Surge Protection Devices, two different working voltages are available, the TP-P48 and TP-P32 denoting 48V and 32V versions respectively.

The TP-P\*\*-\*-NDI Series Surge Protection Devices consist of a solid drawn hexagon bar of stainless steel drilled along its axis to accept a printed circuit board with up to three permanently attached cables. The printed circuit board is potted into the housing which has a choice of the male thread forms for attachment purposes. The designation of the surge protection devices depends upon external thread form and the units are given the identification letter N, I, or G for 1/2" NPT, M20 ISO, and G1/2" thread forms respectively.

The type designations are summarised in the table below:

Voltage (V d.c.)	Thread Form	Type Designation
48	1/2" NPT	TP-P48-N-NDI
48	M20 ISO	TP-P48-I-NDI
48	G1/2"	TP-P48-G-NDI
32	1/2" NPT	TP-P32-N-NDI
32	M20 ISO	TP-P32-I-NDI
32	G1/2"	TP-P32-G-NDI

The opposite end of the bar is threaded with a female M20 thread for the accommodation of flameproof cable entry devices, with or without the interposition of a flameproof thread adapter. Unused entries to be fitted with a flameproof stopping plug. The cable entry devices, thread adapters and stopping plugs shall be suitable for the equipment, the cable and the conditions of use and shall be certified as Equipment (not a Component) under an EC-Type Examination Certificate to Directive 94/9/EC.

A terminal block is provided, potted into the female end for connection of a male terminal connector allowing connection of cables from the conduit.

The devices are rated at up to a maximum of 48V d.c. with a surge capacity up to 10kA for 20 ms.

A range of temperature classes for different ambient temperature ranges are permitted as described in the table below:

Ambient Temperature Range	Temperature Class
Ta = -40°C to +85°C	T4
Ta = -40°C to +80°C	T5
Ta = -40°C to +60°C	T6

### 16 Report Number

Baseefa Certification Report 06(C)0068





**17 Special Conditions for Safe Use**

1. The permanently attached cables shall be suitably protected against pulling, mechanical damage and terminated within a terminal or junction facility suitable for the conditions of use.
2. These devices are not provided with an external connection facility for an earthing or bonding conductor. It is the user's responsibility to ensure adequate earth continuity via the mounting arrangements.
3. This equipment is also afforded Intrinsically Safe Certification to Baseefa06ATEX0034X, and hence the equipment is dual marked. It is the user's responsibility to determine the protection concept to be applied and permanently mark the equipment in the space provided for guidance in installation and maintenance.

**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
1100463	1 of 10	A	05-OCT-06	TP-P** Certification Drawing for ATEX – Index
1100463	3 of 10	A	05-OCT-06	Part Marking Details – NDI Versions
1100463	5 of 10	A	05-OCT-06	Circuit Diagram and Notes
1100463	6 of 10	A	05-OCT-06	Internal Components
1100463	8 of 10	A	05-OCT-06	External Cases – NDI Versions
1100463	10 of 10	A	05-OCT-06	Complete Assembly – NDI Versions

All the above drawings are common with Baseefa06ATEX0034X.