



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: **Baseefa04ATEX0348X**

4 Equipment or Protective System: **MODEL 976Ex ELIMINATOR BAR**

5 Manufacturer: **Meech Static Eliminators Ltd**

6 Address: **2 Network Point, Range Road, Witney, Oxfordshire, OX29 0YD**

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)0391**

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

EN 50014: 1997 + Amds 1 & 2 **EN 50028: 1987 + Amd 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 m IIB T6 -20°C ≤ Tamb ≤ 35°C

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

Baseefa Customer Reference No. **1402**

Project File No. **04/0391**

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

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DIRECTOR
On behalf of
Baseefa (2001) Ltd.



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Schedule

14

Certificate Number Baseefa04ATEX0348X

15 Description of Equipment or Protective System

The Model 976Ex Eliminator Bar is designed for the elimination of electrostatic problems associated with the processing of highly resistive web materials. It is rated at up to 8kV, from a Meech pulsed d.c. supply.

The unit is available in active lengths of up to 4m and comprises a hollow section two part extruded ABS polycarbonate bar. A series of 100M Ohms resistive elements are encapsulated into the upper section of the bar. The lower section of the bar, together with two PVC end caps, completes the enclosure. One of the end caps has a threaded hole into which is fitted a plastic gland and associated plastic conduit, which provides mechanical protection for the two high voltage supply cables.

The cables enter the polyurethane encapsulant and connect, in turn, to each of the resistive elements. At intervals, discharge pins protrude through the surface of the upper section of the bar, terminating in open-ended plastic shrouds. The discharge pins are staggered either side of a central raised portion, which runs the length of the upper section of the bar. Each discharge pin is coupled to one of the supply cables via a resistive element.

Mounting of the bar is by means of recessed grooves which run along the sides of the lower section of the bar.

16 Report Number

04(C)0391

17 Special Conditions for Safe Use

1. The 976Ex eliminator bar shall be used in conjunction with only Meech Type 977v.3 power supplies.
2. The power supply must be protected by a fuse capable of withstanding a prospective short circuit current of 4000A.
3. The bar shall be installed according to the manufacturer's installation instructions for the Model 976Ex.
4. The bar is suitable for installation only in areas where there is a low risk of impact damage.
5. The plastic conduit must be securely clamped within 100mm of the bar.
6. The user must determine, in consultation with the manufacturer, the suitability of the apparatus for use with particular solvents.

18 Essential Health and Safety Requirements

As follows, in addition to those covered by the standards at item 9.

Clause	Subject	Compliance
1.2.7	Protection Against Other Hazards	Baseefa (2001) Ltd Report 04(C)0391, Clause 4.3.1
1.3.1	Hazards Arising From Different Ignition Sources	Baseefa (2001) Ltd Report 04(C)0391, Clause 4.3.2

19 Drawings and Documents

Number	Issue	Date	Description
DMEE0321	5	08.10.04	976Ex Assembly
DMEE0323	3	08.10.04	976Ex ATEX Label



1 **SUPPLEMENTARY EC - TYPE EXAMINATION CERTIFICATE**

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

- 3 Supplementary EC - Type Examination Certificate Number: **Baseefa04ATEX0348X/1**
- 4 Equipment or Protective System: **MODEL 976Ex ELIMINATOR BAR**
- 5 Manufacturer: **Meech Static Eliminators Ltd**
- 6 Address: **2 Network Point, Range Road, Witney, Oxfordshire, OX29 0YD**
- 7 This supplementary certificate extends EC – Type Examination Certificate No. Baseefa04ATEX0347X to apply to equipment or protective systems designed and constructed in accordance with the specification set out in the Schedule of the said certificate but having any variations specified in the Schedule attached to this certificate and the documents therein referred to.

This supplementary certificate shall be held with the original certificate.

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

Baseefa Customer Reference No. **1402**

Project File No. **05/0649**

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Schedule

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Certificate Number Baseefa04ATEX0348X/1

15 **Description of the variation to the Equipment or Protective System**

Variation 1.1

The equipment has been assessed against the requirements of EN 50281-1-1: 1998 + Amd 1 and the marking is amended to include the following:

⊕ II 2 GD EEx m IIB T6 $-20^{\circ}\text{C} \leq \text{Tamb} \leq 35^{\circ}\text{C}$

16 **Report Number**

05(C)0649

17 **Special Conditions for Safe Use**

As for the original certificate, with the addition of the following:

1. When used in dust environments, the equipment may not be used in association with dusts having an electrical resistance equal to or less than $10^3\Omega.m$.
2. When used in dust environments, the equipment may be used only with dusts requiring an ignition energy of greater than 0.06mJ.

18 **Essential Health and Safety Requirements**

Compliance with the Essential Health and Safety Requirements is not affected by this variation.

19 **Drawings and Documents**

Number	Issue	Date	Description
DMEE0323	5	12.12.05	976Ex ATEX Label