



EC - TYPE EXAMINATION CERTIFICATE

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

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- 3 EC - Type Examination Certificate Number: **Baseefa04ATEX0347X**
- 4 Equipment or Protective System: **MODEL 915Ex 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)0390**
- 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 IIA 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. **04/0390**

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



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Schedule

14

Certificate Number Baseefa04ATEX0347X

15 Description of Equipment or Protective System

The Model 915Ex Eliminator Bar, rated at up to 7kV 50/60Hz from a Meech power supply, is designed for the elimination of electrostatic problems associated with the processing of highly resistive web materials.

The unit is available in active lengths of up to 4m and comprises a PVC 'U' section bar into which are encapsulated a series of 100M Ohms resistive elements. A secondary PVC section encloses the 'U' section bar, except for a small opening which runs the length of the bar. A PVC end block is positioned at each end of the bar, and the complete assembly is slotted into an aluminium hollow section extrusion, at the incoming end of which is fitted an aluminium entry block which provides cable entry facilities. The exposed ends of the bar are fitted with PVC end caps.

A flexible PVC coated steel conduit is fixed to the aluminium entry block by means of a threaded cable entry device. The steel conduit provides mechanical protection for the high voltage supply cable.

The cable enters the polyurethane encapsulant and connects, in turn, to each of the resistive elements. At intervals, discharge pins protrude through the surface of the encapsulant and into the opening in the secondary PVC section. Each pair of discharge pins is coupled to the supply cable via a resistive element.

Mounting of the bar is by means of a recessed groove which runs along the underside of the aluminium hollow section extrusion.

Variation 0.1

The polyurethane encapsulant in the end sections at each end of the bar may be replaced by a polyamide encapsulant as indicated on the scheduled drawings.

16 Report Number

04(C)0390

17 Special Conditions for Safe Use

1. The 915Ex eliminator bar shall be used in conjunction with only Meech Type 904 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 915Ex.
4. 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)0390, Clause 4.3.1
1.3.1	Hazards Arising From Different Ignition Sources	Baseefa (2001) Ltd Report 04(C)0390, Clause 4.3.2



19 Drawings and Documents

Number	Issue	Date	Description
DMEE0236	6	18.11.04	915 Assembly
DMEE0322	3	08.10.04	915Ex 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: **Baseefa04ATEX0347X/2**

4 Equipment or Protective System: **MODEL 915Ex 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. **05/0648**

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On behalf of
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Schedule

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Certificate Number Baseefa04ATEX0347X/2

15 Description of the variation to the Equipment or Protective System

Variation 2.1

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 IIA T6 $-20^{\circ}\text{C} \leq \text{Tamb} \leq 35^{\circ}\text{C}$

Variation 2.2

Optional addition of a fillet of encapsulant to the opening in the secondary PVC section.

16 Report Number

05(C)0648

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 0.2mJ.

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
DMEE0322	5	12.12.05	915Ex ATEX Label
DMEE0367	0	13.10.05	915Ex Top Filling



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: **Baseefa04ATEX0347X/1**

4 Equipment or Protective System: **MODEL 915Ex 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.

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Baseefa Customer Reference No. **1402**

Project File No. **05/0412**

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Schedule

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Certificate Number Baseefa04ATEX0347X/1

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

Variation 1.1

Minor clarification to label details.

16 **Report Number**

N/A

17 **Special Conditions for Safe Use**

None additional to those listed previously

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
DMEE0322	4	04.01.05	915Ex ATEX Label