

(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: **KEMA 98ATEX4311 X**

(4) Equipment or protective system: **Cable entries,**  
**Series EMD.-S...-....,**  
**Series EMD.-A...-.... and**  
**Series EMD.-B...-....**

(5) Manufacturer: **Electromach b.v., Member of the R. STAHL Technology Group**

(6) Address: **Hamerstraat 10, 7556 MZ Hengelo, The Netherlands**

(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) KEMA, notified body number 0344 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. 84311.

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

**EN 50014:1992 + prA1 EN 50018:1994 EN 50019:1994**

(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. If applicable, further requirements of this Directive apply to the manufacture and supply of this equipment or protective system.

(12) The marking of the equipment or protective system shall include the following:

 **II 2 G EEx d/e IIC**

Arnhem, 27 September 1999  
by order of the Board of Directors of N.V. KEMA



C.M. Boschloo  
Certification Manager

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## SCHEDULE

(13)

(14)

to EC-Type Examination Certificate KEMA 98ATEX4311 X

(15) **Description**

Cable entries, Series EMD.-S...-..., EMD.-A...-... and EMD.-B...-..., for fixed installations of Group II, in types of protection flameproof enclosures "d" and increased safety "e".

Operating temperature range:

- Series EMD.-A...-... : -40 °C ... +80 °C
- Series EMD.-B...-... : -40 °C ... +80 °C
- Series EMD.-S...-... : -40 °C ... +200 °C

**Installation instructions**

The instructions for safe use of hazardous area glands, as provided by the manufacturer, shall be followed in detail to assure correct installation of the cable entry.

**Routine tests**

Routine tests according to Clause 16 of EN 50018 are not required.

(16) **Report**

KEMA No. 84311

(17) **Special condition for safe use**

The user shall ensure adequate clamping of the cable.

(18) **Essential Health and Safety Requirements**

Essential Health and Safety Requirements not covered by standards listed at (9)	
Clause	Subject
1.0.5.	Marking
1.0.6. (b)	Instructions

These Essential Health and Safety Requirements are examined and positively judged. The results are laid down in the report listed at (16).

(19) **Test documentation**

	<u>signed</u>
1. Description (2 pages)	28.06.1999
2. Drawing No. 5024 (15 sheets)	08.09.1999
3. Instructions for safe use of hazardous area glands (2 pages)	08.09.1999
4. Samples	

**AMENDMENT 1**

to EC-Type Examination Certificate KEMA 98ATEX4311 X

Manufacturer:

**Electromach b.v., Member of the R. STAHL Technology Group**  
**Hamerstraat 10**  
**7556 MZ Hengelo**  
**The Netherlands**

**Description**

The operating temperature range of Series EMD.-S...-... cable entries is extended to  
-50 °C ... +200 °C.

All other data remain unchanged.

**Test documentation**

	<u>signed</u>
1. Drawing No. 5024, sheets 1, 2 and 4	15.12.1999
2. Instructions for safe use of hazardous area glands (2 pages)	15.12.1999

Arnhem, 5 January 2000  
by order of the Board of Directors of N.V. KEMA



C.M. Boschloo  
Certification Manager

Code:  II 2 G EEx d/e IIC

[99.6823]

**AMENDMENT 2**

to EC-Type Examination Certificate KEMA 98ATEX4311 X

Manufacturer:

**Electromach b.v., Member of the R. STAHL Technology Group**  
**Hamerstraat 10**  
**7556 MZ Hengelo**  
**The Netherlands**

**Description**

In future the Series EMD.-S...-... cable entries may also be constructed according to the documentation as mentioned below.

The modification concerns the dimensions of the flat washers.

All other data remain unchanged.

**Test documentation**

1. Drawing No. 5024, sheets 1 and 4, rev. 3

signed

16.02.2000

Arnhem, 25 February 2000  
by order of the Board of Directors of N.V. KEMA



L.M.J. Vries  
Certification Manager

Code:  II 2 G EEx d/e IIC

[20001518]

## AMENDMENT 3

### to EC-Type Examination Certificate KEMA 98ATEX4311 X

Manufacturer: **Electromach B.V., Member of the R. Stahl Technology Group**

Address: **Hamerstraat 10, 7556 MZ Hengelo, The Netherlands**

#### Description

In future, the Cable entries Series EMD.-S...-..., Series EMD.-A...-... and Series EMD.-B...-..., may also be used in explosive atmospheres caused by the presence of combustible dust.

Compliance with the Essential Health and Safety Requirements has been assured by compliance with EN 50281-1-1 : 1998.

The marking of the Cable entries shall include the following:

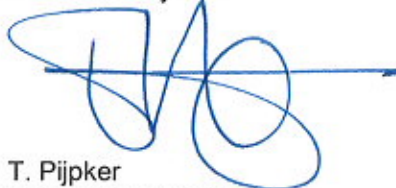
 II 2 GD EEx d/e IIC

All other data remain unchanged.

#### Test documentation

	<u>dated</u>
Discription No. 5024, rev 4 (sheet 1, 2, 12 and 22)	20.04.2004

Arnhem, 6 May 2004  
KEMA Quality B.V.



T. Pijpker  
Certification Manager