

(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 99ATEX8715**
- (4) Equipment or protective system: **Temperature Assembly**
- (5) Manufacturer: **Rosemount Inc.**
- (6) Address: **12001 Technology Drive, Eden Prairie, MN 55344-3659, 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) 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. 98715.

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

EN 50014:1997 + A1, A2 and prA3 EN 50018:1994 + prA1...prA3

- (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 IIC T6**

Arnhem, 7 April 2000
by order of the Board of Directors of N.V. KEMA

L.M.J. Vries
Certification Manager

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SCHEDULE

(13)

(14)

to EC-Type Examination Certificate KEMA 99ATEX8715

(15) **Description**

The Temperature Assembly consists of a PRTE or TC temperature sensor with an integral mounted aluminium or stainless steel connection head. The connection head may be provided with terminals or with an encapsulated temperature transmitter.

Ambient temperature range -40 °C ... +65 °C.

Electrical data

PRTE and TC Sensor

Maximum input voltage : 2,75 V

Maximum input current : 2,0 mA

Temperature transmitter

Maximum input voltage : 55 V dc

Maximum input current : 40 mA

Installation instructions

The cable and conduit entry devices shall be of a certified flameproof type EEx d, suitable for the conditions of use and correctly installed.

With the use of conduit entries a sealing device shall be provided immediately on the entrance to the flameproof enclosure.

Routine tests

Each welded sensor assembly shall be subjected to a routine test as required by clause 16.2 of EN 50018, using the test procedure described in document no. 00644-1046.

The connection head need not to be subjected to routine tests according to Clause 16 of EN 50018 since the type test has been made at a static pressure of at least four times the reference pressure.

(16) **Report**

No. 98715

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

None

SCHEDULE

(13)

(14)

to EC-Type Examination Certificate KEMA 99ATEX8715

(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) and (d)	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**

signed/dated

1. Document No. 00644-1046, rev. AA (4 sheets)	02.03.2000
00644-1053, rev. AB (4 sheets)	02.03.2000
00809-0100-4728, rev. CA	04.1999
00810-0199-4728 (draft)	-
00813-0100-4728, rev. DA	01.2000

2. Samples

AMENDMENT 1

to EC-Type Examination Certificate KEMA 99ATEX8715

Manufacturer:

Rosemount Inc.
12001 Technology Drive
Eden Prairie, MN 55344-3659
USA

Description

The Temperature Assembly may also consist of a PRTE or TC temperature sensor integral or remote mounted to a junction box. The junction box may be provided with terminals or with an encapsulated temperature transmitter.

All other data remain unchanged.

Routine tests

The junction box need not be subjected to routine tests according to Clause 16 of EN 50018 since the type test has been made at a static pressure of at least four times the reference pressure.

Test documentation

- | | |
|---|---------------------|
| 1. Certificate of Conformity ISSEP 95D.103.1211 | <u>signed/dated</u> |
| 2. Document No. 00644-1047, rev. AA (7 sheets) | 22.03.2000 |
| Compliance Report No. C1420-01 | 23.03.2000 |
| 3. Samples | |

Arnhem, 18 April 2000
by order of the Board of Directors of N.V. KEMA



L.M.J. Vries
Certification Manager

AMENDMENT 2

to EC-Type Examination Certificate KEMA 99ATEX8715

Manufacturer: **Rosemount Inc.**

Address: **12001 Technology Drive, Eden Prairie, MN 55344-3659, USA**

Description

The Temperature Assembly may be provided with EEx d cable glands as certified under certificate BAS 01ATEX2070 X.

Electrical data

Unchanged.

Installation instructions

Unchanged.

Routine tests

Unchanged.

Report

KEMA No. 2029805

Test documentation

- | | | |
|----|---|--------------|
| 1. | EC-Type Examination Certificate BAS 01ATEX2070X | <u>dated</u> |
| 2. | Drawing No. 00644-1046, rev. AC (4 sheets) | 12.03.2003 |

Arnhem, 4 July 2003
KEMA Quality B.V.



L.M.J. Vries
Certification Manager

AMENDMENT 3

to EC-Type Examination Certificate KEMA 99ATEX8715

Manufacturer: **Rosemount Inc.**

Address: **12001 Technology Drive, Eden Prairie, MN 55344-3659, USA**

Description


The Temperature Assembly may also be constructed according to the test documentation stated below. The Temperature Assembly meets the requirements of EN 50281-1-1 (1998) and may now be used in areas endangered by the presence of combustable dust.

Ambient temperature range: -40 °C to +85 °C. The maximum surface temperature T 95 °C is based on a maximum ambient temperature of 85 °C.

Degree of ingress protection: IP6x according to EN 60529.

Marking

For dust applications, the marking of the temperature assembly shall be:

 II 1 D T 95 °C

Electrical data

Unchanged.

Installation instructions

Unchanged.

Routine tests

Unchanged.

Report

KEMA No. 2031643.

Test documentation

	<u>dated</u>
1. Drawing No. 00644-1053, rev. AG (3 sheets) 00248-1021, rev. AA (7 sheets)	- 06.02.2003

Arnhem, 22 July 2003
KEMA Quality B.V.


C.G. van Es
Certification Manager