



Prüf- und Zertifizierungsstelle

ZELM Ex



(1) **EC-TYPE-EXAMINATION CERTIFICATE**

- (2) Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres - **Directive 94/9/EC**
- (3) EC-TYPE-EXAMINATION CERTIFICATE Number:

**ZELM 03 ATEX 0171**

- (4) Equipment: **Temperature limiter Type Ex TBK.../.. KA and Temperature controller Type Ex TRK.../.. KA**
- (5) Manufacturer: **Erich Ott**
- (6) Address: **D-65189 Wiesbaden**
- (7) This equipment and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.
- (8) The Prüf- und Zertifizierungsstelle ZELM Ex, notified body No. 0820 in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment 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 the confidential report Nr. ZELM Ex 0850315235.

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

**EN 50 014: 1997+A1+A2**

**EN 50 018: 2000**

**EN 50 019: 2000**

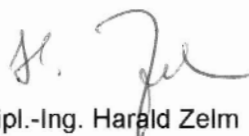
- (10) If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this certificate.
- (11) This EC-type-examination Certificate relates only to the design, examination and tests of the specified equipment or protective system in accordance to the Directive 94/9/EC. 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 shall include the following:



**II 2 G EEx de IIC T6 resp. T5**

Zertifizierungsstelle ZELM Ex

Braunschweig, September 23, 2003

  
Dipl.-Ing. Harald Zelm



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EC-type-examination Certificates without signature and stamp are not valid. The certificates may only be circulated without alteration. Extracts or alterations are subject to approval by the Prüf- und Zertifizierungsstelle ZELM Ex. This English version is based on the German text. In the case of dispute, the German text shall prevail.



(13)

**SCHEDULE**

(14)

**EC-TYPE-EXAMINATION CERTIFICATE ZELM 03 ATEX 0171**

(15) Description of equipment

The temperature limiting module type Ex TBK.../.. KA and temperature controller type Ex TRK.../.. KA with capillary tube sensor which consist of one pressure-resistant control element, mounted in an "increased safety" housing and are used for temperature-sensitiv monitoring and controlling of connected load.

Functional safety is not subject of this EC-type-examination certificate.

The maximum allowable ambient temperature range for standard design is:

-20°C to +40°C for temperature class T6

The following ambient temperature ranges are achieved with special designs:

-40°C to +40°C for temperature class T6 respectively

-20°C to +60°C for temperature class T5 respectively

-40°C to +60°C for temperature class T5.

The assignement is carried out by the specifications given on the type plate.

Electrical Data

Contact circuit

per circuit

operating switch contact (switch)

AC voltage:

$U_N \leq 400 \text{ V}$

$I_N \leq 16 \text{ A}$

$P_N \leq 4000 \text{ VA}$  and respectively

DC voltage:

$U_N \leq 250 \text{ V}$

$I_N \leq 0,25 \text{ A}$

Note:

The operating instructions have to be observed.

(16) Report No.

ZELM Ex 0850315235

(17) Special conditions for safe use

not applicable

(18) Essential Health and Safety Requirements

met by standards

Zertifizierungsstelle ZELM Ex



Braunschweig, September 23, 2003

  
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# 1. Supplement

(Supplement according to EC-Directive 94/9 Annex III letter 6)

# ZELM ex

## to EC-Type Examination Certificate

### ZELM 03 ATEX 0171

Equipment: **Temperature limiter Type Ex TBK.../.. KA and  
Temperature controller Type Ex TRK.../.. KA**

Manufacturer: **Erich Ott**

Address: **D-65189 Wiesbaden**

#### Description of the Supplement

In the 1. Supplement of the EC-Type Examination Certificate changes to the Temperature Limiter Module Type Ex TBK.../.. KAU resp. Temperature Control Module Type Ex TRK.../.. KAU and to the internal Assembly are considered. Furthermore the application in Areas with flammable Dust is considered.

The Changes pertain the Kind of Protection and Marking as well as the permissible ambient Temperature Range.

The Temperature Limiter Type Ex TBK.../.. KA and the Temperature Controller Type Ex TRK.../.. KA shall be manufactured in the future only according to this 1. Supplement and are marked as follows:

Type of Protection / Marking:



II 2 GD

Ex d e mb IIC T6

Ex tD A21 IP6x T100°C

The max. permissible ambient Temperature Range is -40°C to +60°C.

The electrical Data and all other Data remain unchanged and continue to be valid.

#### Report No.

ZELM Ex 1180619541

#### Essential Health and Safety Requirements

The essential Health and Safety Requirements are furthermore adhered to in Compliance with the following Standards:

EN 60079-0:2006

EN 60079-7:2007

EN 60079-1:2004

EN 61241-0:2006

EN 60079-18:2004

EN 61241-1:2004

Braunschweig, July 9, 2008

# ZELM ex

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