



Prüf- und Zertifizierungsstelle

ZELM Ex



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

(2) Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres - **Directive 94/9/EC**

(3) EC-TYPE-EXAMINATION CERTIFICATE Number:

**ZELM 02 ATEX 0077**

(4) Equipment: **Temperature Controller Type QTR . . . - . . .**

(5) Manufacturer: **ELMESS-Thermosystemtechnik GmbH & Co. KG**

(6) Address: **Nordallee 1, D-29504 Uelzen**

(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 ZELM Ex 0420012111.

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

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

**EN 50 017: 1998**

**EN 50 019: 1994**

(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 eq II T6 resp. EEx q II T6**

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Dipl.-Ing. Harald Zelm



Braunschweig, May 8, 2002

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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. In the case of dispute, the German text shall prevail.



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## SCHEDULE

(13)

(14) **EC-TYPE-EXAMINATION CERTIFICATE ZELM 02 ATEX 0077**

(15) Description of equipment

The Temperature Controller type QTR . . . - . . . is used as two-step-control for monitoring of room, medium or surface temperatures within the hazardous area, he can be carried out with attendant console distribution equipment or without attendant console distribution equipment.

The ambient temperature range - 20 °C to + 60 °C

Electrical data

type of current	A.C. / D.C.
rated voltage	400 V / 250 V
rated current	16 A / 0,25 A
conductor size	up to 4 mm <sup>2</sup> , single wire

References:

The instruction manual has to be considered, in particular the equipotential bonding.

(16) Report No.

ZELM Ex 0420012111

(17) Special conditions for safe use

not applicable

(18) Essential Health and Safety Requirements

met by standards

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