



(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:

PTB 04 ATEX 1064 X

(4) Equipment: Cable thermostat KTE-d, type 27-6B.1-5.../.....

(5) Manufacturer: BARTEC GmbH

(6) Address: Max-Eyth-Straße 16, 97980 Bad Mergentheim, Germany

(7) This equipment and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.

(8) The Physikalisch-Technische Bundesanstalt, notified body No. 0102 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 PTB Ex 04-14196.

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

EN 50014:1997+A1+A2

EN 50018:2000

EN 50281-1-1:1998

(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 in accordance to the Directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this equipment. These are not covered by this certificate.

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

II 2 G EEx d IIC T6
II 2 D IP 68 T 80°C

Zertifizierungsstelle Explosionsschutz

Braunschweig, August 30, 2004

By order:

Dr.-Ing. U. Klausmeyer
Regierungsdirektor



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SCHEDULE

(13)

(14) **EC-TYPE-EXAMINATION CERTIFICATE PTB 04 ATEX 1064 X**

(15) Description of equipment

The cable thermostat KTE-d, type 27-6B.1-5.../... is used as a thermostat or a thermal link. It may also be employed in areas in which a potentially explosive atmosphere as a mixture of dust and air can occasionally form.

Technical data

Rated voltage, max.	250 V / 400 V
Admissible operating voltage, max.	275 V / 400 V
Rated current, max.	10 A
Ambient temperatures	-50 ... +60 °C
Operating temperatures	-50 ... +180 °C

(16) Test report PTB Ex 04-14196

(17) Special conditions for safe use

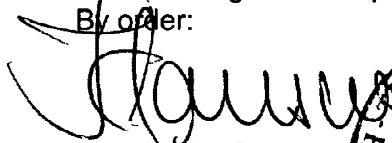
1. The connecting lead shall be installed to provide for permanent wiring and protection against mechanical damage.
2. If connection is made in the potentially explosive area, the connecting lead (open-ended line) shall be connected by means of an enclosure that meets the requirements of a type of protection specified in EN 50014, section 1.2.
3. The maximum admissible ambient temperature, the self-heating rate and, if required, the thermal conduction (medium) shall be considered in determining the operating temperature (max. 180°C).
4. The manufacturer's operating manual shall be duly observed.

(18) Essential health and safety requirements

Met by compliance with the aforementioned Standards.

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EC-type-examination Certificates without signature and official stamp shall not be valid. The certificates may be circulated only without alteration. Extracts or alterations are subject to approval by the Physikalisch-Technische Bundesanstalt. In case of dispute, the German text shall prevail.



1st SUPPLEMENT

according to Directive 94/9/EC Annex III.6

to EC-TYPE-EXAMINATION CERTIFICATE PTB 04 ATEX 1064 X

(Translation)

Equipment: Cable thermostat KTE-d, type 27-6B*1-5***/***/****



Marking:  II 2G EEx d IIC T6
 II 2D IP68 T80 °C

Manufacturer: BARTEC GmbH

Address: Max-Eyth-Straße 16, 97980 Bad Mergentheim, Germany

Description of supplements and modifications

- Adaption of type code 27-6B*1-5***/***/****
- Extension of temperature ranges
 Ambient temperatures: -60 °C to +60 °C
 Working temperatures (operation at rating) -60 °C to +180 °C
- Certification in compliance with the latest version of standards
 With this supplement, the cable thermostat is certified with reference to the below mentioned standards.
- Adaptation of marking
 The marking for the equipment and the documentation is adapted as required.

 II 2 G Ex db IIC T6
 II 2 D Ex tb IIIC T85 °C

Degree of protection: IP68

Special conditions for safe use

1. Regarding connection cable: The operating instructions shall inform the user of any special conditions for installation and operation, and the user shall comply with these conditions.
2. For use in explosive dust atmospheres, the relevant requirements of EN 60079-14, EN 60079-17 and EN 60079-19 shall be complied with.

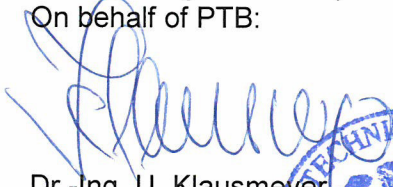
Applied standards

EN 60079-0:2012, EN 60079-1:2007, EN 60079-31:2009

Test report: PTB Ex 14-14038

Zertifizierungssektor Explosionsschutz
On behalf of PTB:

Braunschweig, June 6, 2014



Dr.-Ing. U. Klausmeyer
Direktor und Professor

