Physikalisch-Technische Bundesanstalt

Braunschweig und Berlin

(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 03 ATEX 1025 U

(4) Component: Potentiometer, type 07-661.-..../....

(5) Manufacturer: BARTEC GmbH

(6) Address: 97980 Bad Mergentheim, Germany

(7) This component 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 component 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 03-10041.

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

EN 50014: 1997 + A1 + A2 **EN 50018: 2000**

(10) The sign "U" placed behind the certificate number indicates that this certificate should not be confounded with certificates issued for equipment or protective systems. This Component Certificate only serves as a basis for the issuing of certificates for equipment or protective systems.

(11) This EC-type-examination Certificate relates only to the design, examination and tests of the specified component in accordance to the Directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this component. These are not covered by this certificate.

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

Ex II 2 G EEx d IIC I M 2 EEx d I

Zertifizierungsstelle Explosionsschutz
By order:

Dr.-Ing. U. Klausmeyer
Regierungsdirektor

Braunschweig, November 14, 2003

(13) # S C H E D U L E

(14) ## EC-TYPE-EXAMINATION CERTIFICATE PTB 03 ATEX 1025 U

(15) Description of component

The potentiometer Type 07-661.-..../.... consists of a flameproof enclosure with a built-in adjustable resistor. The potentiometer is connected by potted connecting leads.

Technical data

Rated insulation voltage	up to	250 V
Rated voltage	up to	250 V
Ambient temperature		-55 °C up to 40 °C
Power dissipation	max.	2,5 W for temperature class T6 4 W for temperature class T5
Ambient temperature		-55 °C up to 60 °C
Power dissipation	max.	2,5 W for temperature class T5 4 W for temperature class T4
Ambient temperature		-55 °C up to 80 °C
Power dissipation	max.	2 W for temperature class T4
Rated cross section of the leads	max.	2,5 mm²

The potentiometer is designed for -55 °C up to 110 °C temperature resistance.

(16) Test report PTB Ex 03-10041

(17) Special conditions for safe use

none

Notes for manufacturing and operation

The potentiometer shall be mounted in an enclosure that meets the requirements of an approved type of protection as specified in EN 50014, section 1.2.

Since in this case the requirements of the standard are identical, the component may be used in groups I and II.

This EC-type-examination certificate as well as any future supplements thereto shall at the same time be regarded as supplements to Component Certificate PTB No. Ex-88.B.1034 U. These are no supplements as defined by Directive 76/117/EEC, but only show that the old examination certificate has been replaced.

(18) Essential health and safety requirements

met by compliance with the standards mentioned above

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