

Physikalisch-Technische Bundesanstalt

Braunschweig und Berlin



CONFORMITY STATEMENT

(Translation)

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

(3) Test Certificate Number:

PTB 99 ATEX 2215 X



(4) Equipment: Temperature-measuring transducer type TR04-Ex N, TR104-Ex N and TR204-Ex N
(5) Manufacturer: ABB Automation Products GmbH
(6) Address: D-65760 Eschborn

(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 99-29100.

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

EN 50021:1999

(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 Conformity Statement relates only to the design and construction of the specified equipment in accordance with Directive 94/9/EC. Further requirements of this Directive apply to the manufacture and supply of this equipment.

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



II 3 G EEx n A II T6

Zertifizierungsstelle Explosionsschutz

By order:

Braunschweig, December 23, 1999

Dr.-Ing. U. Johannsmeyer
Regierungsdirektor

Sheet 1/2

Conformity Statements 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.

Physikalisch-Technische Bundesanstalt

Braunschweig und Berlin

(13) SCHEDULE

(14) CONFORMITY STATEMENT PTB 99 ATEX 2215 X

(15) Description of equipment

The temperature-measuring transducers of TR..-Ex N series in connection with sensors are used for the detection, amplification and transmission of measuring values.

The TR..-Ex N series consists of the following designs:

type TR04-Ex N sensor head-temperature-measuring transducer

type TR104-Ex N temperature-measuring transducer in cascading rail housing, 1 and 2 channel

type TR204-Ex N temperature-measuring transducer in field housing

The permissible range of the ambient temperature depending on the temperature class for the respective designs is shown in the following table:

Temperature class	T6	T5	T4, T3, T2, T1
Range of ambient temperature for type TR104-Ex N	-20...+50 °C	-20...+65 °C	-20...+85 °C
Range of ambient temperature for type TR04-Ex N, TR204-Ex N	-40...+50 °C	-40...+65 °C	-40...+85 °C

(16) Test report PTB Ex 99-29100

(17) Special conditions for safe use

1. The temperature-measuring transducers types TR04-Ex N, TR104-Ex N and TR204-Ex N have to be mounted into a housing which meets at least a degree of protection of IP 54 according to IEC-publication 60529:1989.
2. The cables must be connected as such that the connection is free from stress due to tension and torsion.

(18) Essential health and safety requirements

met by standards

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Sheet 2/2