



(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 1001



(4) Equipment: Level switch, type DNRA00.-..

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

(6) Address: Nordallee 1, D-29525 Uelzen, 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 03-12338.

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

EN 50014:1997 + A1 + A2

EN 50018:2000

EN 50019:2000

(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 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 de IIC T6 or EEX d IIC T6**

Zertifizierungsstelle Explosionschutz

By order:

Dr.-Ing. U. Klausmeyer
Regierungsdirektor



Braunschweig, January 30, 2003

(13)

SCHEDULE

(14)

EC-TYPE-EXAMINATION CERTIFICATE PTB 03 ATEX 1001

(15) Description of equipment

The level switch, type DNRA00.-..., consists of an enclosure with built-on immersion tube designed to type of protection Flameproof Enclosure "d", which may be optionally provided with a direct cable entry or a terminal compartment designed to type of protection Increased Safety "e". It is used for monitoring liquid levels.

Technical data

Rated voltage	up to	250 V (AC or DC)
Rated current	max.	1 A
Rated cross section	max.	6 mm ²

Rated values are maximum values, the actual electrical values are determined by mounted electrical apparatus. Within these limiting values complying with the appropriate standards the manufacturer specifies the final limiting values dependent on power supply specifications, operating mode, utilization category, etc.

The composition of the protection symbol is based on the types of protection of components actually used.

(16) Test report PTB Ex 03-12338

(17) Special conditions for safe use

None

Notes for manufacturing and operation

Operation of the level switch, type DNRA00.-..., in compliance with the operating conditions shall be safeguarded by a separate test.

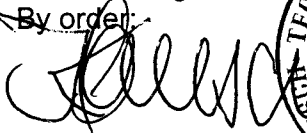
This EC type-examination certificate as well as any future supplements thereto shall at the same time be regarded as supplements for Component Certificate PTB No. Ex-94.C.1033.

(18) Essential health and safety requirements

met by compliance with the standards mentioned above

Zertifizierungsstelle Explosionschutz

By order:



Dr.-Ing. U. Klausmeyer
Regierungsdirektor



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