



Product Service

(1) EC Type Examination Certificate

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

(3) EC Type Examination Certificate Number:

TPS 11 ATEX 29587 011 X



(4) Equipment: WEXH aaaa – 230 ZE bbb – ccccXXT3

(5) Manufacturer: Winkler GmbH

(6) Address: Englerstr.24, 69126 Heidelberg

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

(8) TÜV SÜD Product Service GmbH, notified body No. 0123 in accordance with Article 9 of the Council Directive 94/9/EC of March 23rd 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 of the Directive. The examination and test results are recorded in the confidential report 71385687.

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

EN 1127-1:2007

EN 60079-7:2007

EN 60079-0:2009

EN 60079-18:2009

(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 and the 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 2G Ex e mb IIC T3 Gb



II 2D Ex e mb IIC T 120°C Db

Certification body

Stuttgart, 06.12.2011

Andres Pfeil



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EC Type Examination Certificate 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 TÜV SÜD Product Service GmbH. In case of dispute, the German text shall prevail.
(Document no.: TPS 11 ATEX 29587 011 X)

The document is internally administrated under the following number: Ex5 11 11 29587 011



- (13) **Schedule**
- (14) **EC Type Examination Certificate TPS 11 ATEX 29587 011 X**

(15) Description of equipment:

The Ex-Heating Jackets are used to heat mediums.

Coding of model:

WEXH aaaa – 230 ZE bbb – ccccXXT3

W = Winkler

EX = Ex model

H = Heating Jacket

aaaa = Special number 0000-9999

or letter and serial code at standardised product

B = Bottle Heater and serial code 000-999

D = Drum Heater and serial code 000-999

I = Insulating Jacket and serial code 000-999

230 = Operating voltage 230 V

Z = Number of thermo couples (XX = no ; XE = one ; ZE = two)

E = EX-PT100 thermocouple

bbb = Width / Diameter in cm

cccc = Heating Jacket in cm

XX = Free for special code (XX = 01, 02, 03)

T3 = Code for temperature class T3

Electrical data:

Rated voltage 230 V ~; 50 Hz

Load heating cable 30 W/m

- (16) Test report: 71385687

(17) Special conditions for safe use:

Ambient temperature -40°C to +60°C. The Heating Jacket has to be cleaned in the Dust-Ex-Area cyclically. During operation dust layer has to be < 5 mm. The limit temperature is 200°C in the Gas-Ex-Area and 120°C in the Dust-Ex-Area. The Heating Jacket has to operate with applicable and Ex-licensed temperature controller and temperature limiter. For the Gas-Ex-Area has to be planned a maximum attitude of the temperature limiter of 190°C and a maximum attitude of the operating temperature of 180°C. For the Dust-Ex-Area has to be planned a maximum attitude of the temperature limiter 110°C and a maximum attitude of the operating temperature of 100°C.

- (18) Essential health and safety requirements:
met by standards

Certification body

Stuttgart, 06.12.2011

Andreas Pfeil

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