



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 14 ATEX 29587 014 X**



(4) Equipment: **Ex-Analysis and heating hoses WEX2, WEX3**

(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 23<sup>rd</sup> 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 713045133.

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

- |                            |                         |                           |
|----------------------------|-------------------------|---------------------------|
| <b>EN 1127-1:2011</b>      | <b>EN 60079-7:2007</b>  | <b>EN 60079-30-1:2007</b> |
| <b>EN 60079-0/A11:2013</b> | <b>EN 60079-18:2009</b> | <b>EN 60079-31:2009</b>   |

(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 T4...T3 Gb
 II 2D Ex mb tb IIIC T195°C Db

$-40^{\circ}\text{C} \leq T_a \leq 85^{\circ}\text{C}$

Certification body

Stuttgart, 14.11.2014

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 14 ATEX 29587 014 X)

The document is internally administrated under the following number: EX5 14 11 29587 014



- (13) **Schedule**
- (14) **EC Type Examination Certificate TPS 14 ATEX 29587 014 X**
- (15) Description of equipment:

The Ex-Analysis and heating hoses are used to heat mediums.

Coding of model:

WEX0abbc-230ZEddd-EEEE-fft3

W = Winkler

EX = Ex model

0 = Series

a = Type

bb = Indication of the type of heater band (power)

c = Basic hose and fittings

230 = Operating voltage 230 V / 115 V

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

E = EX-PT100 thermocouple

ddd = Nominal diameter of the basic hose

EEEE = Length of the heating hose in cm

ff = Sensor position basic hose

T3 = Code for temperature class T3

Electrical data:

Rated voltage: 230 V / 115 V ~; 50/60 Hz

Max. load heating cable: 25 W/m; 30 W/m; 40 W/m; 54 W/m

Ambient temperature: -40°C to +85°C

Maximum temperature: Refer to special conditions

- (16) Test report: 713045133
- (17) Special conditions for safe use:

Operator side, ensure that the permissible operating temperatures and pressures are not exceeded. When used with a sensor, suitable temperature control for Ex-area are provided. The real maximum surface temperature of 190°C (Dust-Ex) / 195°C (T3/Gas-Ex) / 130°C (T4/Gas-Ex) must be complied with.

The Ex-Analysis and heating hose must be cleaned cyclically in the Dust-Ex area.

During operation dust layer has to be < 5 mm. The manufacturer's instructions according installation note and user manual must be followed.

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

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