



Product Service

(1) **EU-Type Examination Certificate**

(2) Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres – **Directive 2014/34/EU**

(3) EU-Type Examination Certificate Number:

TPS 17 ATEX 29587 017 X



(4) Equipment: **Ex-Heating hoses**
Type: **WEX4**

(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 17 of the Council Directive 2014/34/EU of the European Parliament and of the Council dated 26 February 2014, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipments 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 713090457.

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

EN 60079-0:2012 + A11:2013	EN 1127-1:2011	EN 60079-7:2015
EN 60079-18:2015	EN 60079-31:2014	EN 60079-30-1:2007

(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 EU-Type Examination Certificate relates only to the design and the construction of the specified equipment in accordance with Directive 2014/34/EU. 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 eb mb IIC T6...T5 Gb II 2D Ex mb tb IIIC T95°C Db

Certification body

Andreas Pfeil



Filderstadt, 2017-06-07

- (13) **Schedule**
- (14) **EU-Type Examination Certificate TPS 17 ATEX 29587 017 X**

(15) Description of equipment:

The Ex-Heating hoses are used to heat mediums. Self-limiting design.

Coding of model:

WEX4abbc-230ZEddd-EEEEffT5

W = Winkler
 EX = Ex model
 4 = Series 4
 a = Type/ Outer sheath (P-easy / W-avarage / G-heavy version)
 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
 T5 = Code for temperature class T6...T5

Electrical data:

Rated voltage: 230 V / 115 V ~; 50/60 Hz
 Max. load heating cable: 10 W/m; 15 W/m; 25 W/m; 30 W/m
 Ambient temperature: $-40^{\circ}\text{C} \leq T_a \leq +65^{\circ}\text{C}$ (Outer sheath : W7: $-20^{\circ}\text{C} \leq T_a \leq +65^{\circ}\text{C}$)
 Maximum temperature: X-Marking / refer to special conditions

- (16) Test report: 713090457
- (17) Special conditions for safe use:

Operator side, ensure that the permissible operating temperatures and pressures are not exceeded. When used with a sensor, a suitable temperature control for the Ex-zone must be provided.

Depending on the model, the real maximum surface temperature of 90°C (Dust-Ex) / 95°C (T5/Gas-Ex) / 80°C (T6/Gas-Ex) must be complied with. The Ex-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.

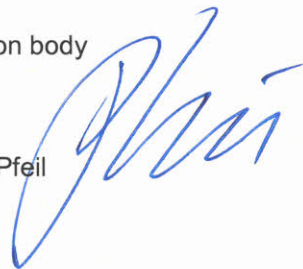
- (18) Essential health and safety requirements:

met by standards.

Certification body

Filderstadt, 2017-06-07

Andreas Pfeil



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EU-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 17 ATEX 29587 017 X)

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