



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 09 ATEX 1 006**



(4) Equipment: heated hoses  
 (5) Manufacturer: Winkler GmbH  
 (6) Address: Englerstraße 24  
 D – 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, 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 71345893



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

- |                  |                  |
|------------------|------------------|
| EN 61241-0:2006  | EN 60079-0:2006  |
| EN 61241-1:2004  | EN 60079-7:2007  |
| EN 61241-18:2004 | EN 60079-18:2004 |

(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 ma e IIC T3
-  II 2D Ex maD tD Ta=-40..+85°C T 200°C

Office of certification of explosion protection

München, 08.05.2009

F. Feihle



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.

The document is internally administrated under the following number: Ex 5 09 04 29587 006



Product Service

## Schedule

(13)

(14) **EC Type Examination Certificate TPS 09 ATEX 1 006**

(15) Description of equipment:

The heated hose WEX8%\*+#, WEX9%\*+# can be used to heat process media in explosive gas atmospheres of zone 1, 2, 21 and 22.

Electrical data:

rated voltage:	230V / 115V AC 50Hz
rated power:	30W - 4600W / 30 W - 2300 W
protection class:	I
admissible ambient temperature Ta:	-40 bis 85°C
max. surface temperature:	200°C

(16) Test report: 71345893

(17) Special conditions for safe use:

The operator has to ensure, that:

- the admissible temperatures and the admissible pressure will be not exceeded.
- temperature-controller and -limiter are selected and proved for the use in explosive gas atmospheres.
- the heated hose is grounded and the grounding is checked before operating the heated hose.
- the heated hose is connected with the local potential equalization.
- A residual current device with 30mA should be installed on supply side.

(18) Essential health and safety requirements:

met by standards

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Product Service

# 1. Addition to EC Type Examination Certificate

(1) EC Type Examination Certificate Number

TPS 09 ATEX 1 006 X



- (2) Equipment: **Ex-Analysis and heating hoses WEX8, WEX9**
- (3) Manufacturer: Winkler GmbH
- (4) Address: Englerstr.24, 69126 Heidelberg
- (5) Description: The Ex-Analysis and heating hoses are used to heat mediums.

A standard comparison was done according to currently valid status.

X-Identification:

Operator side, ensure that the permissible operating temperatures and pressures are not exceeded. A suitable temperature control for Ex-area is provided.  
The real maximum surface temperature of 195°C (Dust-Ex) / 195°C (T3/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.

The marking of the equipment shall include the following:

II 2G Ex e mb IIC T3 Gb     
 II 2D Ex mb tb IIIC T200°C Db  
 -40°C ≤ Ta ≤ 85°C

The results of the Addendum are laid down in the confidential test report no. 713051498.

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

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

Certification body

Michael Reuschel



Filderstadt, 05.12.2014