



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 10 ATEX 1 010 X



(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 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 71358844

(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

(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 IIC 200°C (T2), T3, T4
	II 2D Ex tD A21 IP6X Ta=-40..+85°C T 195°C

Office of certification of explosion protection

München, 25.01.2010

Frank 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: Ex5 10 01 29587 010



(13)

S c h e d u l e(14) **EC Type Examination Certificate TPS 10 ATEX 1 010 X**(15) Description of equipment:

The heated hose WEX2%*+#, WEX3%*+# 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:	25 W/m, 30 W/m, 45 W/m
protection class:	I
admissible ambient temperature Ta:	-40 bis 85°C
max. surface temperature:	195°C

(16) Test report: 71358844(17) Special conditions for safe use:

The self limiting heating element is without temperature controller.

The temperature in the analysing tube has to be limited by the user.

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

Office of certification of explosion protection

München, 25.01.2010

Frank Feihle

Page 2 / 2

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: Ex5 10 01 29587 010