



**BUREAU  
VERITAS**



## Certificate of Conformity

(1)

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

(3) Certificate Number:

**EPS 19 ATEX 2 178 U**

**Revision 1**

(4) Component: Water-Oil-Trap  
Model/Type: WT 20.83 PVDF XL/2; WT 20.83 E XL; WT 20.82 E; WT 30.5 E

(5) Manufacturer: SUN-Control-Analytik GmbH

(6) Address: Pfarrer-Bunk-Str. 21  
86637 Wertingen  
Germany

(7) This component and any acceptable variation thereto are specified in the schedule to this Certificate of Conformity and the documents therein referred to.

(8) Bureau Veritas Consumer Products Services Germany GmbH certifies based on a voluntary assessment that this component 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 2014/34/EU. The examination and test results are recorded in the confidential documentation under the reference number 19TH0503.

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

**EN 80079-36:2016**

**EN 80079-37:2016**

(10) The sign "U" placed behind the certificate number indicates that this certificate shall not be confounded with certificates issued for equipment or protective systems. This certificate is valid for a component without an autonomous function in sense of article 2 (3) and does not authorize for the CE-marking to be applied according to article 13 (3) of the Directive. This component certificate only serves as a basis for the issuing of certificates for equipment or protective systems.

(11) This EU-Certificate of Conformity 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 component shall include the following:



II 2G Ex h IIB/IIC Gb

II 2D Ex h IIIC Db



Certification department of explosion protection

Hamburg, 2020-06-15

H. Schaffer

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Certificates without signature and seal are void. This certificate is allowed to be distributed only if not modified. Extracts or modifications must be authorized by Bureau Veritas Consumer Products Services Germany GmbH. EPS 19 ATEX 2 178 U, Revision 1.

(13) **Annex**

(14) **Certificate of Conformity EPS 19 ATEX 2 178 U**

**Revision 1**

(15) Description of component:

The water-oil-trap is designed for continuous separation of high levels of acid via built-in bypass for engine test stands a high gas flow rate can be achieved. Additionally a condensate outlet is provided and can be used to continuously drain condensate with the aid of a peristaltic pump or an automatic separator. Manual withdrawal via a downstream drain cock is also possible. The water-oil-trap is installed in the tubing directly in front of the gas analyzer. If the upstream gas treatment (cooler, hose pump, dust filter or similar) fails, the water-trap with its semipermeable SUN-C Membrane® technology protects the gas analyzer from any damage. The membrane separates gases from condensate and particulate matter. If the membrane is completely filled, the gas flow will be interrupted. In this case the alarm will be triggered through an upstream variable flowmeter used for monitoring.

(16) Reference number: 19TH0503

(17) Notes for manufacture, installation and operation:

- Ambient temperature range:

WT 20.83 PVDF XL/2	-5 °C - +110 °C
WT 20.83 E XL	-20 °C - +190 °C
WT 20.82 E	-20 °C - +190 °C
WT 30.5 E	-20 °C - +190 °C

- All water-oil-traps within a metal enclosure must be connected to ground potential.
- All conductive and static-dissipative parts must be connected together and earthed.
- Cleaning of the unit must only be carried out with the aid of a damp cloth (danger of static charge/discharge).
- High-charging electric processes are neglected and can be excluded.
- Filters made of PVDF may only be used/installed in gas group IIB appliances.
- In Zones 21 and 22 the use of PVDF filters is not permitted.

(18) Essential health and safety requirements:

Met by compliance with standards.



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