

(1) **Certificate of Conformity**

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

(3) Certificate Number:

EPS 19 ATEX 2 187 U

Revision 1

(4) Component: Filter for particle and liquid separation
Model: PC 1410 E; PC1410 E XL; PC1410 PVDF, SF 20.13; PF 2017; GEF 26; KVE

(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 18TH0542.

(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

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(13)

Annex

(14) **Certificate of Conformity EPS 19 ATEX 2 187 U**

Revision 1

(15) Description of component:

The PC 1410 model is used in the gas processing during the process gas analytics. Thanks to different filter elements, gases/liquids can be filtered (particle filter function) or liquids/aerosols can be deposited (coalescence filter function). The filter housing can be rotated by 360° such that all the connection variants of the gas inlets and gas outlets are possible. The possibility of connecting a bypass is provided.

The acid filter is designed for the removal of aerosols from the gas flow of predominantly emission measurements. This deals with floating liquid droplets (aerosols), which are deposited in a specially built filter matrix. The service life of the filter element depends on the load of the measuring gas due to solids.

The particle filter is designed for the removal of dust particles from the gas flow of flue gases in gas analysis technology. There are different pore sizes of filter elements available. PTFE was chosen as the "high end" material, which prevents memory effects.

The gas sampling filter model GEF 26 is used for gas sampling in process gas analysis. The construction allows a small footprint. The in-process filter can be installed using various connection techniques. Various filter elements / pore sizes are available. The immersion depth of the filter element can be varied over several extensions (option). For the internal filter a dust deflector (option) is available.

(16) Reference number: 18TH0542

(17) Notes for manufacture, installation and operation:

- Ambient temperature range:

| | |
|--------------|------------------|
| KVE | + 5 °C - +90 °C |
| PC 1410 E | -20 °C - +200 °C |
| PC 1410 E XL | -20 °C - +200 °C |
| PC 1410 PVDF | -5 °C - +80 °C |
| SF 20.13 | -5 °C - +80 °C |
| PF 20.17 | -5 °C - +80 °C |
| GEF 26 | -20 °C - +150 °C |

- All filters for particle and liquid separation 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).
- Highly charged processes are 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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Hamburg, 2020-06-15

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