

CONFIRMATION

of Product Conformity (QAL1)

Approved AMS: DECS® for Longterm-Sampling and Waste gas velocity

Manufacturer: TCR Tecora srl.
Via delle Primule, 16
20815 Cogliate (MB)
Italy

Test Institute:: TÜV Rheinland Energy & Environment GmbH

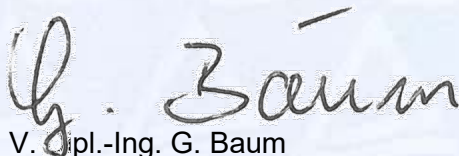
**This is to certify that the AMS has been tested
according to the standards**

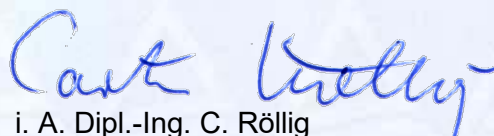
**Uniform practise for monitoring of emissions 2017*
as well as EN 16911-1 (2013), EN 14181 (2014), EN 15267-1 (2009) and EN 15267-2
(2023).**

The AMS underwent independent expert testing and was accepted.
This confirmation is valid up to the publication of the certificate,
but no longer than 6 months from the date of issue
(this document contains 4 pages).

This confirmation is valid until: 15 November 2024

TÜV Rheinland Energy & Environment GmbH
Cologne, 31 May 2024


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Test institute accredited to EN ISO/IEC 17025 by DAkkS (German Accreditation Body).
This accreditation is limited to the accreditation scope defined in the enclosure to certificate D-PL-11120-02-00.

Confirmation:
31 May 2024

Test Report: EuL/21250093/C dated 26 February 2024

Expiry date: 15 Novmeber 2024

Approved application:

The tested long-term sampling system is suitable for sampling of dioxins and furans. The measured ranges have been selected so as to ensure as broad a field of application as possible.

The suitability of the AMS for this application was assessed on the basis of a laboratory test and a 4 month field test at a Abfallverbrennungsanlage.

The AMS is approved for an ambient temperature range of Komplettsystem 0 °C to 40 °C / Sampling probe -20 °C to 50 °C.

The notification of suitability of the AMS, performance testing and the uncertainty calculation have been effected on the basis of the regulations applicable at the time of testing. As changes in legal provisions are possible, any potential user should ensure that this AMS is suitable for monitoring the measured values / emission limit values relevant to the application.

Any potential user should ensure, in consultation with the manufacturer, that this AMS is suitable for the intended purpose.

Note:

The legal regulations mentioned do not correspond to the current state of legislation in every case. Each user should, if necessary, in consultation with the competent authority, ensure that this AMS meets the legal requirements for the intended use. In addition, it cannot be ruled out that legal regulations governing the use of a measuring device for emission monitoring may change during the lifetime of the certificate.

Basis of the confirmation

This confirmation is based on:

- Test report EuL/21250093/C dated 26 February 2024 issued by TÜV Rheinland Energy & Environment GmbH
- The ongoing surveillance of the product and the manufacturing process
- Expert testing and approval by an independent body

Confirmation:
31 May 2024

AMS designation:

DECS[®] for Longterm-Sampling of PCDD/F

Manufacturer:

TCR Tecora srl. , Cogliate (MB), Italy

Field of application:

Ongoing sampling of PCDD/F

Measuring ranges during performance testing:

Component	Certification range	Unit
Waste gas velocity	2–30	m/s
PCDD/F	up to 0,5	ng TEQ/m ³ *

*at 250 m³ sample gas extraction to 60 g XAD-2

Software version:

4.0.1

Restrictions:

none

Notes:

1. The maintenance interval for the exhaust gas velocity is 4 weeks.
2. The integrated velocity measurement cannot be used in exhaust gases saturated with water vapour.

Test Institute: TÜV Rheinland Energy & Environment GmbH, Cologne

Report No.: EuL/21250093/C dated 26 February 2024

Confirmation:
31 May 2024

Tested product

This certificate applies to automatic measuring devices that comply with the following description:

The measuring system tested here consists of a measuring cabinet with integrated control unit and sample gas conditioning as well as sampling lines and the sampling probe box. The sampling lines are only heated (to max. 30 °C) when the outside temperature falls below 5 °C to prevent condensation.

The measuring cabinet contains the complete control electronics, a pump and a gas volume meter for sample gas preparation. The parameters and control of the sampling are adjusted and set via an LCD control display located on the cabinet door.

Measuring cabinet / control unit:

The control unit is connected to the sampling box via an RS485 connection. The unit is used to collect data on the flue gas parameters. These are important in order to determine the responsible flow rate during sampling and to maintain the isokinetic conditions and volume measurement.

The parameters and settings for sampling can be recorded via the LCD control display located on the measuring cabinet door. The display also provides an overview of the current sampling and shows the important parameters.

Sampling probe box (sampling unit):

The sampling probe box is responsible for sampling and for measuring the exhaust gas parameters, such as exhaust gas velocity, pressure and temperature. The sample gas is extracted isokinetically via the nozzle, the sampling probe, the titanium cartridge with filter and the cooler as well as the glass cartridge (with XAD-2).

The tested measuring system consists of

- two measuring cabinets CU2110001 / CU2110002 (here: control unit)
- Pump and gas volume counter (sample gas conditioning)
- Sampling line 10 m (max. temperature 30 °C)
- Two sampling probes SU2110001 / SU2110002 (here: Sampling Unit)