DAkkS
Deutsche
Akkreditierungsstelle
D-ZE-11120-02-00

CERTIFICATE

Certificate of Product Conformity (QAL1)

Certificate number: 0000090025_00

Data collection and analysis body:	UmweltOffice/TALAS/7
Manufacturer:	Siempelkamp NIS Ingenieurgesellschaft Industriestraße 13 63755 Alzenau, Germany

Testing body: TÜV Rheinland Energy & Environment GmbH

It is hereby certified that the data acquisition and handling system has been tested in accordance with the standardsDIN EN 17255-1 (2019), DIN EN 17255-2 (2020), DIN EN 17255-3 (2021), BEP (2023)*, IED 2010/75/EU, EFÜ (2017)*, DIN EN 14181 (2015) as well as DIN EN 15267-1 (2023) and DIN EN 15267-2 (2023) and is certified.

The certification applies to the conditions set out in this certificate and the accompanying document in the change history for the equipment certificate (0000090025)
(this certificate comprises 8 pages).

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ZERTIFIZIERT

Eignungsgeprüft
DIN EN 15267
QAL1 zertifiziert
Regelmäßige Überwachung

www.tuv.com
ID 0000090025

TÜV Rheinland Energy & Environment GmbH
Cologne, 29 September 2026

Dr Tobias Schäfer
Local Business Field Manager

Certificate valid until:
28 September 2031

Dipl.-Ing (Univ) Carsten Röllig
Head of the QAL1 Certification Body

QAL1 Certification Body **www.qal1.de** Tel. +49 221 806-5200	TÜV Rheinland Energy & Environment GmbH Am Grauen Stein 51105 Cologne
Certification body accredited by DAkkS in accordance with DIN EN ISO/IEC 17065. The accreditation applies only to the scope of accreditation listed in Annex D-ZE-11120-02-00 to the certificate scope of accreditation listed in the certificate annex D-ZE-11120-02-00.	

*BEP (2023) Nationwide standard practice for the monitoring of emissions 2023
*EFÜ (2017) EFÜ interface definition 2017 (remote data transmission)

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Test reports:	EuL/21265723/C issued by TÜV Rheinland Energy & Environment GmbH on 13 July 2026 and 936/21242054/B issued by TÜV Rheinland Energy GmbH on 1 March 2019
Initial certification:	29 September 2026
Certificate valid until:	28 September 2031
Publication:	2 October 2026, official database www.qal1.de

Approved application

The certified Emissions Data Acquisition and Analysis System (DAHS) is suitable for recording and analysing emissions measurement data from installations in accordance with TA-Luft (2021), 1st BImSchV (2021), 2nd BImSchV (2020), 13th BImSchV (2021), 17th BImSchV (2024), 44th BImSchV (2022), 27th BImSchV (2013), 30th BImSchV (2022), 31st BImSchV (2024) and IED 2010/75/EU Chapters III (2016), IV (2014) and V (2014). The test was carried out in accordance with the Uniform Federal Practice (2023). Data transmission between the AMS and the evaluation system takes place via analogue (0–20 mA) and digital (VDI 4201, Modbus 2012) channels.

The system also includes remote transmission of emissions data via modem and FTPES.

The tests were carried out as a suitability test in the laboratory. The various plant types were simulated in the laboratory test.

The emission data analysis system is approved for an ambient temperature range of +5 °C to +40 °C.

The DAHS was approved and the suitability test carried out in accordance with the regulations in force at the time of testing. Due to possible changes in the legal framework, every user should ensure, prior to using the DAHS, that it is suitable for monitoring the legal requirements relevant to them.

Every potential user should consult with the manufacturer to ensure that this DAHS is suitable for the intended purpose.

Basis of certification

This certificate is based on:

- EuL/21265723/C issued by TÜV Rheinland Energy & Environment GmbH on 13 July 2026 and 936/21242054/B issued by TÜV Rheinland Energy GmbH on 1 March 2019,
- Audit report 936/21237094/A dated 24 October 2016 issued by TÜV Rheinland Energy GmbH, and audit report EuL/21269904/A dated 17 January 2025 issued by TÜV Rheinland Energy & Environment GmbH,
- Certification decision by the QAL1 certification body, accredited in accordance with DIN EN ISO/IEC 17065,
  certification body TÜV Rheinland Energy & Environment GmbH
- Monitoring of the product and the manufacturing process.

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Data Acquisition and Handling System:
UmweltOffice/TALAS/7

Manufacturer:
Siempelkamp NIS Ingenieurgesellschaft,
Alzenau

Suitability:
For the collection, analysis and remote transmission of emissions data in accordance with DIN EN 17255, BEP2023, IED 2010/75/EU and the TEHG for installations subject to continuous monitoring.

Functions in the suitability test:
- analogue data transmission
- digital data transmission in accordance with VDI 4201 Part 1 (General) and Part 3 (Modbus)
- Remote transmission of emission data via modem and FTPES
- Emissions analysis

Software version:
Data analysis and parameterisation:

UmweltOffice:	7.5.1
Oracle database:	12, 18, 19, 21
PostgreSQL:	13, 16

Data acquisition:

TALAS/7:	7.5 (001)
TALAS/net:	5.3 (001) only as an I/O module for the TALAS/7

Restrictions:
none

Notes:
1. Emissions data acquisition and analysis comprises the front-end system for recording analogue and status signals, and a PC running the UmweltOffice software package and the TALAS/7 programme for data transfer. The following front-end systems are available: the TALAS/net and the TALAS/7 I/O modules IO8/AI, IO8/DI, IO8/AIDI, IO4/AI, IO4/DI, IO4/AIDI, IO4/DIDO and the TALAS/7-IOC+.
2. The computer features the Modbus digital interface (serial and TCP/IP) in accordance with VDI 4201 Part 1 (General) (2010) and Part 3 (Modbus) (2012).
3. Optionally, the TALAS/7 programme for data transfer can also run on a TALAS/7-IOC or TALAS/7-IOC+ controller, a TALAS/7-LPM controller as a DIN-rail module, or on another PC.

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4. The programme is also available as the ‘UmweltOffice sE’ small edition with 12 analogue inputs and without data acquisition, and as the ‘UmweltOffice mE’ medium edition with 12 analogue inputs and with data acquisition
5. Supplementary testing (testing in accordance with EN 17255, QAL3 and IED) in accordance with the announcements by the Federal Environment Agency dated 21 February 2025 (Banz AT 31 October 2025 B5, Chapter II No. 1.3).

Testing body:
TÜV Rheinland Energy & Environment GmbH, Cologne

Report No.: EuL/21264486/C issued by TÜV Rheinland Energy & Environment GmbH on 13 July 2026 and 13 July 2026 and 936/21242054/B issued by TÜV Rheinland En-ergy GmbH on 1 March 2019

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Certified product

The certificate applies to DAHS systems that comply with the following description:

The emissions data acquisition and analysis system comprises the UmweltOffice software package and the systems for acquiring analogue and digital signals.

The following systems are used to acquire analogue and status signals:
- TALAS/net, used solely as an I/O module for the TALAS/7
- TALAS/7 I/O modules

TALAS/7 I/O modules

The TALAS/7 I/O modules feature a 16-bit analogue-to-digital converter. A value is sampled in the I/O modules every 25 ms.

The moving AIN value calculated every 25 ms is then transmitted to the TALAS/7 every 500 ms and averaged there to produce a 5-second FLD. If two AIN values differ by more than 1 mA, the new AIN value is transmitted to the TALAS/7 immediately.

TALAS/7

The TALAS/7 software handles data acquisition from the input modules, averaging, conversion in accordance with the calibration function, normalisation and validation of the measured values, and forwards the short-term averages to the UmweltOffice software. In addition, the raw values are also forwarded as 5-second averages for data archiving. The TALAS/7 software can run either on the same PC as UmweltOffice, on a separate PC, or on the TALAS/7 IOC Controller.

The PC connected downstream of the data acquisition units, running the UmweltOffice software package, takes over the data for storage and further processing. The computer carries out classification and evaluation in accordance with the guidelines and generates the required reports and logs.

The PC running the UmweltOffice software can receive and process data from multiple data acquisition units. To do this, systems are configured in UmweltOffice for each data acquisition unit and assigned to the respective unit. Data analysis can be carried out separately for each system or collectively for several systems. This also applies to remote data transmission.

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TALAS/7-IO module versions:

Module	AI	DI	AO	DO
TALAS/7 – IO8/AI	28	1		1
TALAS/7 – IO8/Tue		29		1
TALAS/7 – IO8/AIDI	14	15		1
TALAS/7 – IO8/AO		1	14	1
TALAS/7 – IO4/AI	12	1		1
TALAS/7 – IO4/DI		13		1
TALAS/7 – IO4/AIDI	6	7		1
TALAS/7 – IO4/DIDO		7		7
TALAS/7 – IO4/AO		1	6	1
TALAS/7 – IO4/DO		1		13
TALAS/7 – IO4/AODO		1	2	9
TALAS/7 – IOC+	8	12		4

AI = analogue input, DI = digital input, AO, DO = analogue, digital output

TALAS/7 I/O modules

- Protection class: IP20
- Ambient temperature: Operating: 0 … 50 °C, Storage: -40 … +80 °C
- Power supply: via Power over Ethernet (PoE, IEEE802.3af)
- Alternatively: via screw terminals, external power supply (18–48 V DC)
- Electrical isolation: 1500 volts (isolation distance >= 2 mm)
- Power consumption: maximum 8 watts
- Network: 10BaseT via RJ45
- Measurement data transmission: via UDP/IP, TCP/IP

Analogue inputs

- AD converter: per input
- T – correction: per input
- Resolution: 0.763 µA (15 bits)
- Accuracy: 0.04% FSR (Full Scale Range: 25 mA)
- Sampling interval: approx. 25 ms
- Measuring range: 0 … > 24 mA
- Terminal resistance: 50 ohms
- Reverse-polarity protected, galvanically isolated from one another and from the module

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Digital inputs

- External voltages: 12 … 25 V AC or 12 … 60 V DC
- Potential-free contacts: require a 24 V power supply
- Internal resistance: > 50 kOhm
- Sampling interval: approx. 2 ms
- Reverse-polarity protected, galvanically isolated from one another and from the module

The downstream hardware running the UmweltOffice software must meet the following minimum configuration requirements:

- Intel Xeon E-2314
- 8 GB
- ≥ 500 GB hard drives
- Ethernet interface for TALAS/net and TALAS/7-IO modules
- Serial (RS 232) / USB interface for modem
- USB interfaces
- Operating system: Windows 11 (64-bit) or Windows Server 2019 (64-bit) and 2022 (64-bit)
- Radio clocks (e.g. DCF77 receivers), internet or in-house NTP protocols, or GPS receivers.
- External modem (if remote data transmission is required)

The TALAS/7 programme can run on the same computer as UmweltOffice. Optionally, the TALAS/7 programme can also run on a TALAS/7 – IOC controller or a TALAS/7 – LPM controller – each as a DIN-rail module computer – for data transfer.

For data backup, the PC is equipped with a second hard disk for data mirroring, a backup drive and/or an Ethernet interface for backing up data to another PC or network. A printer can be connected to the computer. This is used to print daily logs, messages and instances where limit values have been exceeded.

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General remarks

This certificate is based on the tested unit. The manufacturer is responsible for ensuring that production continues to comply with the requirements of DIN EN 15267. The manufacturer is obliged to maintain a certified quality management system to control the manufacture of the certified product. Both the product and the quality management systems must be subject to regular monitoring.

If it is found that the product from current production no longer conforms to the certified product, TÜV Rheinland Energy & Environment GmbH must be informed at the address given on page 1.

The certificate mark, bearing the product-specific ID number, which may be affixed to the certified product or used in promotional materials for the certified product, is shown on page 1 of this certificate.

This document and the certificate mark remain the property of TÜV Rheinland Energy & Environment GmbH. This certificate ceases to be valid upon revocation of the notification. Upon expiry of the certificate's validity and at the request of TÜV Rheinland Energy & Environment GmbH, this document must be returned and the certificate mark must no longer be used.

The current version of this certificate and its validity can also be viewed at the website **qal1.de**.

Document history

The history of the certified measuring system UmweltOffice/TALAS/7 from Siempelkamp NIS Ingenieurgesellschaft is based on the change history documents associated with the certificate number, as well as the regular, ongoing monitoring of the manufacturer's quality management system:

Initial certification in accordance with DIN EN 15267-1:2023

Certificate No. 0000090025_00
Certificate valid until: 28 September 2031
Test reports: EuL/21264486/C issued by TÜV Rheinland Energy & Environment GmbH on 13 July 2026 and 13 July 2026 and 936/21242054/B issued by TÜV Rheinland Energy GmbH on 1 March 2019
Date of issue of the certificate: 29 September 2026
Official certificate database: www.qal1.de

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