CERTIFICATE

of Product Conformity (QAL1)

Certificate No.: 0000089102_00

Certified sampling system:	PNS NG for particulate matter $PM_{2.5}$ or PM_{10}
Manufacturer:	Comde-Derenda GmbH Kieler Straße 9 14532 Stahnsdorf Germany
Test Institute:	TÜV Rheinland Energy & Environment GmbH

This is to certify that the AMS has been tested and found to comply with the standards EN 12341 (2023), EN 15267-1 (2009) and EN 15267-2 (2023).

Certification is awarded in respect of the conditions stated in this certificate (this certificate contains 6 pages).

TÜVRheinland® CERTIFIED

Suitability Tested
Complying with 2008/50/EC
EN 15267
Regular Surveillance
www.tuv.com
ID 0000089102

Publication in the German Federal Gazette (BAnz) of 10 July 2026

This certificate will expire on: 9 July 2031

German Environment Agency
Dessau, 17 September 2026

Dr. Marcel Langner
Head of Section II 4

TÜV Rheinland Energy & Environment GmbH
Cologne, 15 September 2026

G. Baum
Dipl.-Ing. G. Baum

www.umwelt-tuv.eu
qal1-info@tuv.com
Tel. + 49 221 806-5200

TÜV Rheinland Energy & Environment GmbH
Am Grauen Stein
51105 Köln

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 the certificate D-PL-11120-02-00.

Test report:	EuL/21265113/B dated 1 October 2025
Initial certification:	10 July 2026
Expiry date:	9 July 2031
Publication:	BAnz AT 10.07.2026 B5, chapter IV Number 4.2

Approved application

The tested sampling device is suitable for continuous sampling of PM_{10} or $PM_{2.5}$ for subsequent gravimetric determination.

The suitability for these applications was tested on the basis of a laboratory test and a one-month continuous field test.

The sampling device is approved for the ambient temperature range of -20 ° to +50 °C.

The notification of suitability of the sampling device and performance testing has 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 sampling device is suitable for monitoring the measured values relevant to the application.

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

Basis of the certification

This certification is based on:

- Test report EuL/21265113/B dated 1 October 2025 by TÜV Rheinland Energy & Environment GmbH
- Suitability announced by the German Federal Environment Agency (UBA) as the relevant body
- The ongoing surveillance of the product and the manufacturing process

Publication in the German Federal Gazette: BAnz AT 10.07.2026 B5, chapter IV Number 4.2, UBA announcement dated 18 May 2026:

AMS designation:
PNS NG for particulate matter $PM_{2.5}$ or PM_{10}

Manufacturer:
Comde-Derenda GmbH, Stahnsdorf, Germany

Field of application:
Sampling device for the gravimetric determination of the particulate matter component $PM_{2.5}$ or PM_{10} in accordance with standard DIN EN 12341 (2023)

Software version:
02.03.001

Restrictions:
None

Notes:

1. The test covers the PNS NG T-DM device version (Tower version).
2. The sampling device can be equipped with either a small pump (4 m³/h, version 3.1) or a large pump (8 m³/h, version 6.1).
3. The test was carried out with active cooling of the filter magazine for the loaded filters.
4. The test report is available online at www.qal1.de.

Test Report: TÜV Rheinland Energy & Environment GmbH, Cologne
Report No.: EuL/21265113/B dated 1 October 2025

Certified product

This certificate applies to automated sampling system conforming to the following description:

The PNS NG sampler is an automatic, sequential low-volume sampler designed for dust sampling on membrane or fibre filters. The system includes a sampling line and can be operated with either a PM_{10} sampling inlet or a $PM_{2.5}$ sampling inlet. Ambient air is drawn in via the respective sampling inlet for PM_{10} or $PM_{2.5}$ using a pump. The dust-laden air is then separated by a filter. After sampling, the dust collected on the filters is determined by external gravimetric weighing in accordance with EN 12341. In addition, the filters can be used for further analytical procedures such as the detection of heavy metals.

The PNS NG sampling device is available in the following configuration:

- PNS NG T-DM (Tower version, all components in a single housing, suitable for indoor and outdoor installation)

Furthermore, the sampling unit can be equipped with either a small pump (4 m³/h, version 3.1) or a large pump (8 m³/h, version 6.1).

Technical data and operating parameters (manufacturer's specifications)

Sampling unit	PNS NG
Dimensions in mm	459 x 956 x 235
Weight in kg	39 - 43
Sampling pump	Version 3.1: 1,0…3,5 m³/h Version 6.1: 1,0…5,5 m³/h
Sampling tube	Up to 3000 mm (800 mm during testing)
Sampling head	SH 10-47 (PM_{10}) SH 2.5-47 ($PM_{2.5}$)
Power supply	230 VAC at 50/60 Hz
Power consumption	300 – 350 W

Installation conditions

Temperature	-20 bis +50 °C
Humidity	0-100% rH
Sampling line	1
Sampling flow rate	2.3 m³/h = 38,33 l/min constant
Sampling tube	Aluminium, anodised and internally polished

Filter management

Filter type	Flat filter, d = 47 mm
Filter holder	POM
Filter capacity	18, 24 oder 29
Filter conditioning after sampling	Optional cooling unit

Data logging

Interval	1 min – 1440 h (software 02.02.001) 1 min - 59 h 59 min (from software 02.03.001), (15 min during the test)
Operating parameters	Flow rate (m³/h i.B. and m³/h i.N.) Volume (m³ i.o. and m³ n.c.) Critical nozzle temperature Critical nozzle temperature Outside temperature Relative humidity Ambient pressure Filter differential pressure Filter temperature Filter housing temperature Error code
Interfaces	USB, Micro-SD LAN, RS232, optional LTE modem

General notes

This certificate is based upon the equipment tested. The manufacturer is responsible for ensuring that on-going production complies with the requirements of the EN 15267. The manufacturer is required to maintain an approved quality management system controlling the manufacture of the certified product. Both the product and the quality management systems shall be subject to regular surveillance.

If a product of the current production does not conform to the certified product, TÜV Rheinland Energy & Environment GmbH must be notified at the address given on page 1.

A certification mark with an ID-Number that is specific to the certified product is presented on page 1 of this certificate. This certification mark may be applied to the product or used in advertising materials for the certified product.

This document as well as the certification mark remains property of TÜV Rheinland Energy & Environment GmbH. Upon revocation of the publication the certificate loses its validity. After the expiration of the certificate and on request of TÜV Rheinland Energy & Environment GmbH this document shall be returned and the certificate mark must no longer be used.

The relevant version of this certificate and its expiration is also accessible on the internet: **qal1.de**.

Document history

Certification of the PNS NG sampling system is based on the documents listed below and the regular, continuous surveillance of the manufacturer's quality management system:

Initial certification according to EN 15267
Certificate no. 0000089102_00: 17 September 2026
Expiry date of the certificate: 9 July 2031
Test report: EuL/21265113/B dated 01 October 2025
TÜV Rheinland Energy & Environment GmbH
Publication: BAnz AT 10.07.2026 B5, chapter IV number 4.2
UBA announcement dated 18 May 2026