TÜVRheinland®
Precisely Right.

CONFIRMATION

of Product Conformity (QAL1)

Sampling device:	PNS NG for PM_{10} or $PM_{2,5}$
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 according to the standards

EN 12341 (2023),
as well as 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 9 months from the date of issue
(this document contains 5 pages).

This confirmation is valid until: 31 December 2026

TÜV Rheinland Energy & Environment GmbH
Cologne, 10 April 2026

i. V. Dipl.-Ing. G. Baum

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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.

Test Report:	EuL/21265113/B dated 1 October 2025
Expiry date:	31 December 2026

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.

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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/21265113/B dated 1 October 2025 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

Sampling device:
PNS NG for suspended 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 on the suitability test is available online at www.qal1.de.

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

Tested product

This confirmation applies to automated measurement systems 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 m^3/h, version 3.1) or a large pump (8 m^3/h, version 6.1).

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Technical data and operating parameters (manufacturer's specifications)

Sampling unit	PNS NG T-DM
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 bei 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. und m³/h i.N.)
	Volume (m³ i.B. und m³ i.N.)
	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