

# CERTIFICATE

## of Product Conformity (QAL1)

Certificate No.: 0000074631\_00

Evaluation system: EMIR

Manufacturer: PRONOVA Analysentechnik GmbH & Co. KG  
Granatenstraße 19-20  
13409 Berlin  
Germany

Test Institute: TÜV Rheinland Energy GmbH

This is to certify that the data acquisition and handling system (DAHS)  
has been tested and found to comply with the standards  
Uniform practice in monitoring emissions 2017\*,  
EFÜ interface definition 2017 (remote emission control),  
EN 14181 (2014), EN 15267-1 (2009) and EN 15267-2 (2009).

Certification is awarded in respect of the conditions stated in this certificate  
(this certificate contains 5 pages).



Suitability Tested  
EN 15267  
QAL1 Certified  
Regular  
Surveillance

www.tuv.com  
ID 0000074631

Publication in the German Federal Gazette  
(BAnz) of 11 April 2022

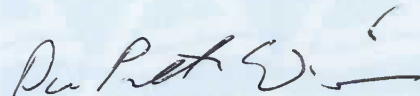
German Environment Agency  
Dessau, 31 May 2022

This certificate will expire on:  
11 April 2027

TÜV Rheinland Energy GmbH  
Cologne, 30 May 2022



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

\* Uniform Practice in monitoring emissions 2017, - Circular from Federal Environment Ministry of 2017-01-23 - IG I 2 - 45053/5

**Test report:** 936/21245184/C dated 12 August 2021

**Expiry date:** 11 April 2027

**Publication:** BAnz AT 11.04.2022 B10, Chap. IV No. 1.1

### **Approved application**

The tested emission data evaluation system (DAHS) is suitable for recording and evaluating emission measurements at installations with continuous monitoring. The approval test was conducted using the German Federal Uniform Emissions Monitoring Practices 2017.

Data transmission between the AMS and the evaluation system is analogue (0 - 20 mA). The system also includes remote emission data monitoring via FTPS.

The tests were carried out as a performance test in the laboratory and as a three-month long-term test at a waste incineration plant. In the laboratory test, different types of installations were simulated.

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

The notification of suitability of the DAHS and performance testing 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 DAHS is suitable for monitoring the emission limit values relevant to the application.

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

### **Note:**

The legal regulations mentioned do correspond to the current state of. Each user should, if necessary, in consultation with the competent authority, ensure that this DAHS meets the legal requirements for the intended use. In addition, it cannot be ruled out that legal regulations governing the use of a DAHS

for emission monitoring may change during the lifetime of the certificate.

### **Basis of the certification**

This certification is based on:

- Test report 936/21245184/C dated 12 August 2021 of TÜV Rheinland Energy GmbH
- Suitability announced by the German 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 11.04.2022 B10, chapter IV No. 1.1,  
Announcement by UBA dated 09 March 2022:

**AMS designation**

EMIR

**Manufacturer:**

Pronova Analysentechnik GmbH & Co. KG, Berlin

**Field of application:**

Emission data acquisition, evaluation and remote transmission for plants with continuous monitoring and plants according to GHG-Emissions regulation.

**Tested features during performance testing:**

- analoge Datenübertragung zwischen AMS and Rechner
- Emissionsdatenfernübertragung über FTPS

**Software version:** V1.0.4

**Restriction:**

The requirement in the suitability test for the protection class of the housing is not met and is IP20 or IP21 for the computer housing. The evaluation system must be installed in a protective housing suitable for evaluation computers with the IP class required for the installation site. This must be checked as part of the correct installation.

**Notes:**

1. The emission data acquisition and evaluation system consists of the system for recording analog and status signals (CX5120 data logger with digital input modules type KL1408 and analog input modules type KL3444 and KL3448) and a PC with the EMIR program package.
2. The inputs of the A/D converter modules are not galvanically isolated. Depending on the application, the use of isolation amplifiers may therefore be necessary.
3. The remote transmission of emission data to an administrative system is done via FTPS.

**Test institute:** TÜV Rheinland Energy GmbH, Cologne

**Test report No.:** 936/21245184/C dated 12 August 2021

### **Certified product**

This certificate applies to automated measurement systems conforming to the following description:

The evaluation system consists of the EMIR programme package and various systems/modules for transferring analogue and operational status signals.

System used to accept analogue and operational status signals:

**- CX5120 data logger**

The following types of input modules were installed

- **KL1408** with 8 digital inputs
- **KL3444** and **KL3448** with 4 or 8 analogue inputs, respectively

The analogue input modules are used for A/D conversion. The modules have a sampling rate of 5/sec and 12-bit analogue/digital converters. The digital input modules are used to receive digital signals from the measuring equipment for processing operational status signals.

The EMIR programme on the downstream PC performs the data transfer from the input modules, the averaging, the conversion according to the calibration function, the normalisation and the validation of the measured values. The computer also carries out the classification and evaluation according to the regulations and generates the required messages and protocols. In addition, the raw signals are also stored as 1 sec. values for data archiving.

Data from several data collection units can be transferred and processed. For this purpose, plants are set up in EMIR for each data collection unit and assigned to the data collection unit. The data evaluation can be carried out separately for each plant or jointly for several plants. This also applies to remote data transmission.

The connected computer with the EMIR programme is a standard PC with the following minimum configuration:

- Dual Core i5 4570TE processor (or equivalent)
- 8 GB Ram
- 2 hard drives  $\geq$  1 TB
- Operating system Windows 10 / Server 2016
- Ethernet interface for CX5120
- Min. 2 USB ports
- Meinberg PCI radio clock card (e.g. PZF180PEX) with external antenna

For data backup, the PC is equipped with a second hard disk for data storage, a backup drive (e.g. CD burner or external drive) and an Ethernet interface for data backup on another PC.

### **The evaluation system was tested on the basis of the following requirements:**

- Uniform Practice in monitoring emissions,  
Circular from Federal Environment Ministry of 2017-01-23 - IG I 2 - 45053/5
- Remote emission control (EFÜ) / interface definition  
revised edition dated April 2017
- EN 14181 2014 (Stationary source emissions - Quality assurance of automated measuring systems) Use of this regulation with regard to the data evaluating of emission measuring systems

### **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 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 and the certification mark remains property of TÜV Rheinland Energy GmbH. With revocation of the publication the certificate loses its validity. After the expiration of the certificate and on requests of the TÜV Rheinland Energy GmbH this document shall be returned and the certificate mark must not be employed anymore.

The relevant version of this certificate and its expiration is also accessible on the internet: [gal1.de](http://gal1.de).

### **History of documents**

Certification of EMIR is based on the documents listed below and the regular, continuous monitoring of the Quality Management System of the manufacturer:

#### **Initial certification according to EN 15267**

Certificate No. 0000074631\_00: 31 May 2022  
Expiry date of the certificate: 11 April 2027  
Test report 936/21245184/C dated 12 August 2021  
TÜV Rheinland Energy GmbH  
Publication BAnz AT 11.04.2022 B10, chapter IV number 1.1  
UBA announcement dated 9 March 2022