CERTIFICATE

of Product Conformity (QAL1)

Certificate No.: 0000085404_00

Certified AMS:	OneFID for TOC
Manufacturer:	Pollution s.r.l. Via Guizzardi 52 40054 Budrio Italy
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 15267-1 (2009), EN 15267-2 (2023), EN 15267-4 (2023), EN 12619 (2013) as well as EN 14181 (2014).

Certification is awarded in respect of the conditions stated in this certificate (this certificate contains 7 pages).

TÜVRheinland® CERTIFIED
Suitability Tested
EN 15267
QAL1 Certified
Regular Surveillance
www.tuv.com
ID 0000085404

Publication in the German Federal Gazette (BAnz) of 19 May 2025

German Environment Agency

Dessau, 20 August 2025

This certificate will expire on: 18 May 2030

TÜV Rheinland Energy & Environment GmbH
Cologne, 18 August 2025

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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.

Test report:	EuL/21263963/A dated 18 September 2024
Initial certification:	19. May 2025
Expiry date:	18 May 2030
Publication:	BAnz AT 19.05.2025 B3, chapter II No. 1.1

Approved application

The tested P-AMS is suitable for use for periodic measurements of emissions from stationary sources at plants according to Directive 2010/75/EC, chapter III (combustion plants / 13th BImSchV:2021), chapter IV (waste incineration plants / 17th BImSchV:2024), Directive 2015/2193/EC (44th BImSchV:2022), 30th BImSchV:2019, 27th BImSchV:2013 and 2th BImSchV:2021 for the calibration and validation of stationary AMS within the scope of QAL2 and AST according to EN 14181.
The component TOC are measured according to the standard reference measurement method.
The measured ranges have been selected so as to ensure as broad a field of application as possible.

The suitability of the P-AMS for this application was assessed on the basis of a laboratory test and five field test campaigns at different industrial facilities.
The The device was tested at two waste incineration plants, one production plant and two thermal post combustion plants.

The P-AMS is approved for an ambient temperature range of +5 °C to +40 °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 emission limit values relevant to the application.

Any potential user should ensure, in consultation with the manufacturer, that this AMS is suitable for the installation at which it will be installed.

Note

The legal regulations mentioned correspond to the current state of legislation during certification. 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 certification

This certification is based on:

- Test report EuL/21263963/A dated 18 September 2024 of 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 19.05.2025 B3, chapter II No. 1.1, Announcement by UBA dated 2 April 2025:

AMS designation:
OneFID for TOC

Manufacturer:
Pollution S.r.l., Bologna, Italy

Field of application:
Portable measuring system for recurring measurements of emissions from stationary sources with the standard reference measurement method for the calibration and validation of stationary AMS within the scope of QAL2 and AST according to DIN EN 14181 at installations of the 2nd BImSchV, 13th BImSchV, 17th BImSchV, 27th BImSchV, 30th BImSchV and 44th BImSchV

Measuring ranges during the performance test:

Component	Certification range	Supplementary measurement ranges		Unit
TOC	0 - 15	0 - 500	0 - 2.000	mgC/m³

Software versions:

GUI:	1.0.0
Software:	5.8.0
Mainboard FW:	00.18.0

Restrictions:
none

Notes:
1. Zero gas can be provided by connecting synthetic air or via the internal zero gas conditioning system.
2. The measuring device must be operated with mains voltage.

Test institute:
TÜV Rheinland Energy & Environment GmbH, Cologne
Report No.: EuL/21263963/A dated 18 September 2024

Certified product

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

The flame ionization detector uses a hydrogen flame to burn carbonaceous organic compounds. The sample gas passes through a flame that is fed with hydrogen and zero air and ionizes the carbon atoms. Therefore, the number of ions produced is proportional to the number of carbon atoms. To determine the number of ions, two electrodes are placed along the course of the flame to create a constant electrostatic field that displaces the resulting ions and creates an ionization current proportional to the instantaneous carbon flux. The current is measured via a sensitive ammeter and then displayed on a display. The current measurement thus provides a measure of the existing carbon flux.
The OneFID portable measuring device is also equipped with an internal catalyser for detecting methane. All hardware components required for detecting methane were installed and activated in the tested analysers, even if it is not part of this suitability test and certification.

The OneFID measuring device is a portable analyzer for the determination of TOC.
The measuring system tested here consists of:
Compact device housing with:

- FID detector
- Continuous and controlled sample injection system
- Heated filter in the sample gas inlet
- Sample suction pump
- System for generating zero air with activated carbon filter
- LCD touch screen display
- Data storage with USB download option
- Power supply

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. With revocation of the publication the certificate loses its validity. After the expiration of the certificate and on requests of the TÜV Rheinland Energy & Environment 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: **qal1.de**.

History of documents

Certification of OneFID 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. 0000085404_00: 20 August 2025
Expiry date of the certificate: 18 May 2030
Test report: EuL/21263963/A dated 18 September 2024
TÜV Rheinland Energy & Environment GmbH
Publication: BAnz AT 19.05.2025 B3, chapter II number 1.1
UBA announcement dated 2 April 2025

The uncertainty calculation of the component is shown on the following page. As separate uncertainty calculations must be carried out for each field test, this certificate shows the calculation with the highest result for the overall uncertainty. All other uncertainty calculations can be found in the aforementioned proficiency test report.

Calculation of overall uncertainty according to EN 14181 and EN 15267-4 for both systems during field test 5

Measuring system			
Manufacturer			Pollution S.r.l.
AMS designation			OneFID
Serial number of units under test			424 / 524
Measuring principle			FID
Test report			EuL/21263963/A
Test laboratory			TÜV Rheinland
Date of report			18.09.2024
Measured component			TOC
Certification range			0 - 15 mg/m³

Evaluation of the cross-sensitivity (CS)
(system with largest CS)
The cross-sensitivities were calculated site-specifically as a function of the exhaust gas matrix at the respective field test facility, taking into account the cross-sensitivity influences determined in the laboratory.

Maximum sum of cross-sensitivities		0,27 mg/m³	
Uncertainty of cross-sensitivity	u_i	0,154 mg/m³	

Calculation of the combined standard uncertainty

Test parameter			u^2
Standard deviation laboratory test	u_r	0,040 mg/m³	0,002 (mg/m³)²
Lack of fit	u_{lof}	-0,081 mg/m³	0,007 (mg/m³)²
Zero drift from field test	$u_{d,z}$	0,400 mg/m³	0,160 (mg/m³)²
Span drift from field test	$u_{d,s}$	-0,200 mg/m³	0,040 (mg/m³)²
Influence of ambient temperature from field	u_t	0,726 mg/m³	0,527 (mg/m³)²
Influence of supply voltage field test specific	u_v	0,000 mg/m³	0,000 (mg/m³)²
Cross-sensitivity field test specific	u_i	0,154 mg/m³	0,024 (mg/m³)²
Influence of sample gas pressure field test specific	u_p	0,000 mg/m³	0,000 (mg/m³)²
Influence of sample gas flow field test specific	u_p	0,000 mg/m³	0,000 (mg/m³)²
Uncertainty of reference material at 70% of certification range	u_{rm}	0,121 mg/m³	0,015 (mg/m³)²
Excursion of measurement beam	u_{mb}	0,000 mg/m³	0,000 (mg/m³)²
Converter effciency for AMS measuring NOx	u_{ce}	0,000 mg/m³	0,000 (mg/m³)²
Variation of response factors (TOC)	u_{rf}	0,000 mg/m³	0,000 (mg/m³)²

Combined standard uncertainty (u_c)	$u_c = \sqrt{\sum (u_{max,j})^2}$	0,88	mg/m³
Total expanded uncertainty	$U = u_c * k = u_c * 1,96$	1,72	mg/m³

Relative total expanded uncertainty	**U in % of the range**	**17,2**
Requirement of 2010/75/EU	**U in % of the range**	**30,0**
Requirement of EN 15267-3	U in % of the range	22,5
Requirement for standard reference methods		