TÜVRheinland®
Precisely Right.

CONFIRMATION

of Product Conformity (QAL1)

Approved AMS:	ATK/F-EUT for O_2
Manufacturer:	SETNAG 22-26 Rue John Maynard Keynes 13013 Marseille Frankreich
Test Institute::	TÜV Rheinland Energy & Environment GmbH

This is to certify that the AMS has been tested according to the standards DIN EN 15267-1 (2009), DIN EN 15267-3 (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 6 months from the date of issue
(this document contains 4 pages).

This confirmation is valid until: 31.08.2026

TÜV Rheinland Energy & Environment GmbH
Cologne, 18.03.2026

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.

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Test Report:	EuL/21263632/A
Expiry date:	31.08.2026

Approved application:
The tested AMS is suitable for use at plants according to Directive 2010/75/EC, chapter III (combustion plants / 13th BImSchV:2021), chapter IV (waste incineration plants / 17th BImSchV:2023), Directive 2015/2193/EC (44th BImSchV:2022), TA Luft:2021, 30th BImSchV:2019 and 27th BImSchV:2013. The measured ranges have been selected so as to ensure as broad a field of application as possible.

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/21263632/A 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
- Suitability announced by the relevant body.

AMS designation:
ATK/F-EUT for O_2

Manufacturer:
SETNAG

Field of application:
For installations subject to authorisation under the 13th BImSchV, the 17th BImSchV, the 30th BImSchV, TA Luft as well as the 27th BImSchV and 44th Luft.

Measuring ranges during performance testing:

Component	Certification range	Supplementary measuring ranges	Unit
O_2	0-25	0-10	Vol.-%

Software version:
0.34

Restrictions:
The measuring device has an IP53 protection rating, which means it is only suitable for indoor use.

Notes:
1. The maintenance interval is four weeks.
2. The measuring system determines the gas concentration in moist exhaust gas.

Test Institute:
TÜV Rheinland Energy & Environment GmbH, Cologne
Report No.: EuL/21263632/A

Tested product

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

The certified measuring device is the SETNAG ATK/F-EUT O_2 analyser, designed for the continuous monitoring of oxygen concentration in combustion gases. The measuring principle is based on a zirconium dioxide measuring element (MicroPoas sensor) with an internal metallic reference.

Zirconium dioxide (ZrO_2) is a solid electrolyte that becomes conductive to oxygen ions at high temperatures. In the sensor's design, the electrolyte separates two electrodes, each of which is in contact with gases of different oxygen partial pressures. This generates an electrochemical voltage which can be described according to the Nernst equation as a function of the ratio of the measured oxygen partial pressure to the reference partial pressure. This electrochemical measuring principle enables the continuous determination of the oxygen concentration in the exhaust gas. The type-approved measuring system bears the model designation ATK/F-EUT. The measuring system tested here consists of the sensor (ATKFD230812/90 and /89), the control unit (ATKCU23082/84 and /99), the manual ATKFEUT-QAL1_MEX115_DE rev2 and software version 0.34 of the control unit. Software version 0.34 remained unchanged throughout the entire test period.

The sensor essentially consists of a power supply unit, a cast aluminium housing, two tubes for gas circulation comprising an inner tube and a detachable outer tube, the MicroPoas sensor as a zirconium dioxide measuring element, a device for introducing the calibration gas, a heating furnace and a terminal block. The assembly is secured to the measurement port by a steel flange welded to the outer gas extraction tube. The exhaust gas enters the housing via the space between the outer and inner tubes and, after analysis by the MicroPoas sensor, is returned to the exhaust duct via the inner tube.

The MicroPoas sensor operates with an internal metallic reference sealed inside the sensor. Together with a type S thermocouple, the sensor is embedded in an aluminium oxide tube to achieve greater mechanical strength. It is mounted on the measurement port via a mounting flange welded to the head.

The control unit essentially consists of an electronic circuit board with a touchscreen, a voltage converter for the furnace, a 24 V DC power supply, a circuit board with the user interface, and a USB port. The touch panel is used to display parameters such as measured values, furnace temperature, ambient temperature, alarms, sensor voltage and air pressure. In addition, the display is used to adjust and set the measurement range. The USB port enables software updates, configuration of the analyser, and the saving of measured values and events. The certified measurement system includes the following components in particular:

Sensor: ATKFD230812/90 and /89

Control unit: ATKCU23082/84 and /99

Manual: ATKFEUT-QAL1_MEX115_DE rev2 Control unit