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CONFIRMATION

of Product Conformity (QAL1)

Approved AMS:	S24N24V + OXYBOX'AIR 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 5 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/B
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:
S24N24V + OXYBOX'AIR 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:
V1

Restrictions:
The IP54 protection class of the measuring device only allows installation in locations protected from precipitation.

Notes:
1. The maintenance interval is four weeks.
2. The measuring system determines the gas concentration in moist exhaust gas.
3. The measuring system is operated and controlled using the PC software OxyboxAir EXPERT, which runs on a Windows PC that forms an integral part of the measurement setup.

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

Tested product

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

Description of the certified measuring system The certified measuring system is the SETNAG S24N24V + OXYBOX'AIR O_2 analyser, designed for the continuous monitoring of oxygen concentration in combustion gases. The measuring principle is based on a MicroPoas zirconium dioxide sensing element 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 that are in contact with gases of different oxygen partial pressures. This generates an electrochemical voltage that can be described according to the Nernst equation, depending on 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 S24N24V + OXYBOX'AIR. The measuring system tested here consists of a control unit in the NSYS3D4420T electronics cabinet, a power supply unit, the S24N24V sensor with heating furnace (MicroPoas measuring element), a flow meter with an alarm sensor, the OXYBOX'AIR transmitter, an ejector pump, a pressure gauge, a digital display, a USB port for an external device to run the software, a maintenance switch on the outside of the housing, electrically heated sampling lines from the manufacturer M&C, type 4M4/6-S/FR PTFE 180 °C, a gas sampling probe from the manufacturer M&C, type SP2000-H/R, a standard Windows PC, the manual S24N+Oxybox'Air-QAL1_MEX116_DE-rév3, and the control unit's OxyboxAir EXPERT software version V1. The software version OxyboxAir EXPERT V1 remained unchanged throughout the entire test period. Gas is extracted via an SP2000-H/R probe from the manufacturer M&C. An ejector pump installed in the housing ensures that the S24N24V sensor is flowed over with the gas to be analysed.

The S24N24V sensor operates with an internal metallic reference sealed within 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.

An external computer must be connected to adjust the zero and reference points. Connection is via the USB port of the OXYBOX'AIR transmitter. The software allows, in particular, the measurement range to be configured, alarms and their limit values to be set, and the zero and reference points to be adjusted. In addition, the software enables the display of parameters such as measured value, furnace temperature, ambient temperature, voltage of the MicroPoas element and air pressure. The certified measurement system comprises the following components in particular:

- O_2 analyser: S24N24V + OXYBOX'AIR control unit in the electronics cabinet: NSYS3D4420T
- Sensor with heating oven: S24N24V (MicroPoas measuring element)
- Flow meter with alarm sensor Transmitter: OXYBOX'AIR
- Ejector pump
- Pressure gauge
- Digital display
- USB port for external device
- Maintenance switch
- Electrically heated sampling line: M&C Type 4M4/6-S/FR PTFE 180 °C
- Gas sampling probe: M&C Type SP2000-H/R
- Windows PC

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- Manual: S24N+Oxybox'Air-QAL1_MEX116_DE-rév3
- Control unit software version: OxyboxAir EXPERT V1