

CONFIRMATION

of Product Conformity (QAL1)

Certified AMS: N400 for Ozone

Manufacturer: Teledyne API
9970 Carroll Canyon Road
San Diego, CA, 92131
USA

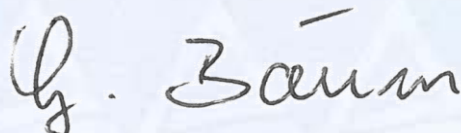
Test Institute: TÜV Rheinland Energy & Environment GmbH

**This is to certify that the AMS has been tested
and found to comply with the standards
VDI 4202-1 (2018), EN 14625 (2012), EN 14625 (2024)
as well as EN 15267-1 (2009) and EN 15267-2 (2023).**

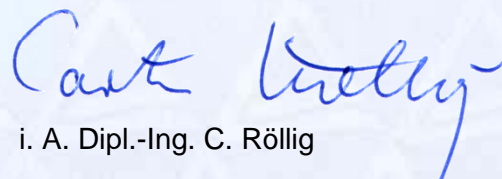
The AMS underwent independent expert testing and was accepted.
This confirmation is valid up to the publication of the certificate,
but no longer than 9 months from the date of issue
(this certificate contains 4 pages).

This confirmation is valid until: 31 December 2026

TÜV Rheinland Energy & Environment GmbH
Cologne, 10 April 2026



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51105 Köln

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.

confirmation:
10 April 2026

Test report:

936/21255654/D dated 28 August 2023 and Addendum
EuL/21272240/D dated 15. July 2025

Approved application

The tested AMS is suitable for continuous immission measurement of Ozone in stationary use.

The suitability of the AMS for this application was assessed on the basis of a laboratory test and a three month field test.

The AMS is approved for an ambient temperature range of 0 °C to +45 °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 measured values relevant to the application.

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

Basis of the certification

This certification is based on:

- Test report 936/21255654/D dated 28 August 2023 of TÜV Rheinland Energy GmbH and Addendum EuL/21272240/D dated 15. July 2025 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

confirmation:
10 April 2026

Notice on the notices of the Federal Environment Agency of 19th March 2024 (BAnz AT 10.05.2024 B7, Chapter III number 2.1) and of 02nd April 2025 (Banz AT 19.05.2025 B3, Chapter IV, 69th notification).

The measurement system N400 for ozone from Teledyne API fulfils the requirements of EN 14625 (edition 2024). An addendum to the test report with the report number EuL/21272240/D can be viewed online at www.qal1.de.

Statement by TÜV Rheinland Energy & Environment GmbH dated 15 July 2025

confirmation:
10 April 2026

Tested product

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

The immission measuring device N400 is a continuous ozone analyzer. The measuring principle is based on ultraviolet absorption. The device is designed for continuous measurement of ozone in ambient air.

The N400 ozone analyzer determines the concentration of ozone (O₃) in an air sample drawn into the measuring device. The N400 measures the intensity of ultraviolet light after it passes through a measuring chamber. In this chamber, the light is absorbed in proportion to the amount of ozone present. Every four seconds, a shuttle valve switches between a gas flow containing ozone and a reference gas flow that has been purified of ozone.

The photometer in the N400 analyzer uses a high-power mercury vapor lamp to generate a beam of UV light. This beam passes through a window that is non-reactive with O₃ and transmissive to UV radiation at 254 nm, and then enters the absorption tube filled with sample gas.

The UV light passes through a similar window at the other end of the absorption tube and is detected by a vacuum diode. This diode only detects radiation at or near a wavelength of 254 nm. The accuracy of the detector is high enough that no additional optical filter for UV light is needed. The detector responds to the UV light and outputs a voltage that is in direct proportion to the light intensity.

Alternative assemblies:
Particle filter

The N400 measuring device has a particle filter directly behind the sample gas inlet. The particle filter is located on a secured flap at the rear of the measuring device.

Alternatively, it is possible to equip the N400 measuring device with a DFU filter cartridge with a pore size of 0.01 µm.

For this filter, the manufacturer specifies a replacement interval of up to 6 months.

The replacement interval of the particle filter depends, of course, on the dust load at the installation site and must be determined individually for each measuring point.