



सीएसआईआर-एनपीएल भारत प्रमाणन योजना

CSIR-NPL India Certification Scheme (NPLCS)

(सीएसआईआर-राष्ट्रीय भौतिक प्रयोगशाला: राष्ट्रीय मापन संस्थान, भारत)

डॉ. के.एस. कृष्णन मार्ग, नई दिल्ली-110012, भारत

(CSIR-National Physical Laboratory: National Metrology Institute of India)

Dr. K. S. Krishnan Marg, New Delhi-110012, India

VERIFICATION CERTIFICATE

Application No.: 25100907

Date of issue: 05/12/2025

Certificate No.: NPLCS/CEMS/VC-2025-04S

Valid up to: date of renewal
of the original certificate

This is to certify that the

Continuous Emission Monitoring System

Model: O2000N

Make: OPSIS

Manufactured by:

Opsis AB

P.O. Box 244 S-244 02 Furulund, Sweden

Issued to:

Nevco Engineers Pvt. Ltd.

90A-2nd Floor, Amritpuri B, East of Kailash, Opposite Iskon Temple, New Delhi-110065

Previously Certified by:

MCERTS (Certificate no. Sira MC020011/08) & TÜV RHEINLAND (Certificate No. 0000062063_02)

has been verified under CSIR-NPL India Certification Scheme (NPLCS) and found suitable as per the defined guidelines of CPCB. This certificate is valid up to the next renewal date as mentioned in the previously issued certificate or any change notified by the CPCB in its Guideline, which will be applicable to this product or any part of this product. This certificate holder must have to submit the "Annual Surveillance Test" report to NICB for annual performance validation of this product.

Chairman Certification Committee
(NPL India Certification Scheme)

NPLCS, CSIR-National Physical Laboratory

(National verification agency for certifying instruments and equipment for monitoring emissions and ambient air)

Dr. K. S. Krishnan Marg, New Delhi-110012, India

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1. Details of Verified Parameter:

1.1 The product O2000N verified after assessment of previously issued "Product Conformity Certificate" by MCERTS (Certificate no. Sira MC020012/06) & TÜV RHEINLAND (Certificate No. 0000062063_02) for the following certification ranges:

| Sr. No. | Gases | Certified Range |
|---------|----------------|-----------------|
| 1 | O ₂ | 0 to 25% vol |

Table 1

1.2 The MCERTS certificate no. Sira MC020012/06 & TÜV RHEINLAND Certificate No. 0000062063_02 issued for the Product O2000N is only valid with the following components:

1.2.1 Sample probe (Model 502) with an in-situ sensor
1.2.2 O2000 monitor unit Transmitter unit (Model EM 062-A)

1.3 The certified operational conditions of the Product O2000N are

1.3.1 Ambient Temperature Range: Stack components -20°C to +50°C
1.3.2 Control unit -20°C to +50°C
1.3.3 IP rating: IP66

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1.4 The certified performance of Product O2000N

| Sr. No. | Test Parameters | O ₂ |
|---------|--|----------------|
| 1 | Response time | 32 s |
| 2 | Repeatability standard deviation at zero point | 0.04 |
| 3 | Repeatability standard deviation at reference point | 0.02 |
| 4 | Lack-of-fit | -0.08 |
| 5 | Influence of ambient temperature zero point | 0.04 |
| 6 | Influence of ambient temperature reference point | -0.11 |
| 7 | Influence of sample gas pressure | 0.02 |
| 8 | Influence of voltage variations 190 to 250V | 0.07 |
| 9 | Cross-sensitivity at zero with interferents: O ₂ , H ₂ O, CO, CO ₂ , CH ₄ , N ₂ O, NO, NO ₂ , NH ₃ , SO ₂ , HCl | 0.00 |
| 10 | Cross-sensitivity at reference with interferents: O ₂ , H ₂ O, CO, CO ₂ , CH ₄ , N ₂ O, NO, NO ₂ , NH ₃ , SO ₂ , HCl | 0.00 |

1.5 The system continuously measures O₂ in flue gas. The system comprises two components, a sample probe (Model 502) with an in-situ sensor and a control unit.

1.6 The zirconia sensor within the probe is controlled at about 700°C by an integral heated..

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सीएसआईआर-एनपीएल भारत प्रमाणन योजना CSIR-NPL India Certification Scheme (NPLI CS)

(सीएसआईआर-राष्ट्रीय भौतिक प्रयोगशाला: राष्ट्रीय मापन संस्थान, भारत)
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2. Acceptability of the product for use in Indian Conditions:

- 2.1 The measuring instrument O2000N complies with the Indian environmental conditions.
- 2.2 The O2000N system is a continuously measures O₂ in flue gas measurement system. The zirconia sensor within the probe is controlled at about 700°C by an integral heated.
- 2.3 The uses of O2000N, depending on the parameter-specific Emission Standards for Indian industries as described in Table 8 of the 1st Revised Guidelines for Continuous Emission Monitoring Systems, August 2018 published by CPCB.
- 2.4 The use of O2000N technology for measurement of flue gases, depending on "Technical Selection & Suitability for Gaseous CEMS" as described in Table 5 of the 1st Revised Guidelines for Continuous Emission Monitoring Systems, August 2018 published by CPCB.

3. General Note:

After assessment of the MCERTS (Certificate no. Sira MC020012/06) & TÜV RHEINLAND (Certificate No. 0000062063_02), the Certification Committee (NPLI CS) reconfirmed that the product passed the acceptability criteria for Indian uses and is eligible for this Verification Certificate.

It is the responsibility of M/s Nevco Engineers Pvt. Ltd., 90A-2nd Floor, Amritpuri B, East Of Kailash, Opposite Iskon Temple, New Delhi-110065 (On behalf of Opsis AB, P.O. Box 244 S-244 02 Furulund, Sweden) to inform CSIR-NPL about the manufacturing modifications in the model no. O2000N.

It is also the responsibility of M/s Nevco Engineers Pvt. Ltd., 90A-2nd Floor, Amritpuri B, East Of Kailash, Opposite Iskon Temple, New Delhi-110065 (On behalf of Opsis AB, P.O. Box 244 S-244 02 Furulund, Sweden) to provide the list of installation of this equipment (with geographic coordinates) to CSIR-NPL for surveillance.

This Verification Certificate is only valid for the Model No. O2000N.

The validity of this Verification Certificate is bound to the renewal date of the original Certificate no. Sira MC020012/06 & TÜV RHEINLAND Certificate No. 0000062063_02.

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