



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

(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.: 25100904

Certificate No.: NPLI CS/ PM-CEMS/VC-2025-03

Date of issue: 17/10/2025

Valid up to: date of renewal
of the original certificate

This is to certify that the
Continuous Emission Monitoring System
Model: S305QAL
Make: SINTROL

Manufactured by:
Sintrol Oy
Ruosilantie 15 00390 Helsinki Finland

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 MC200365/01)

has been verified under CSIR-NPL India Certification Scheme (NPLI CS) 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)

NPLI CS, 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

Fax : 91-11-45609310
NPLI CS : 91-11-45608287
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Website: www.nplindia.org

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1. Details of Verified Parameter:

1.1 The product S305QAL verified after assessment of previously issued "Product Conformity Certificate" by MCERTS (Certificate no. Sira MC200365/01) for the following certification ranges:

Sr. No.	Particulate Matter	Certified Range
1	Dust	0 to 7.5 mg/m ³
		0 to 15 mg/m ³
		0 to 100 mg/m ³

Table 1

1.2 The MCERTS certificate (Certificate no. Sira MC200365/01) issued for the Product S305QAL is only valid with the following components:

- 1.2.1 Analyser - Dust Monitor Model S305QAL Accessories
- 1.2.2 Welded adapter MC900229
- 1.2.3 Blind cap MC900033
- 1.2.4 Tri-Clamp MC900034
- 1.2.5 Tri-Clamp Teflon seal MC900007
- 1.2.6 Purge air adapter MC900203
- 1.2.7 Probe extension 250, 500mm
- 1.2.8 Operator software - DustTool
- 1.2.9 Interface adapter - RS 485 USB EC900041
- 1.2.10 Test device for adjustment monitoring(Optional) - Sintrol reference signal generator

1.3 The certified operational conditions of the Product S305QAL are

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

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1.4 The certified performance of Product S305QAL

Sr. No.	Test Parameters	Dust 0 to 7.5 mg/m ³	Dust 0 to 15 mg/m ³	Dust 0 to 100 mg/m ³
1	Response time	< 148 s	< 119 s	< 147 s
2	Repeatability standard deviation at zero point	0.6	0.6	0.6
3	Repeatability standard deviation at reference point	0.37		
4	Lack-of-fit	-1.07	0.53	0.30
5	Influence of ambient temperature zero point	-0.06		
6	Influence of ambient temperature reference point	1.60		
7	Influence of voltage variations 196 to 253V (AC)	0.46		
8	Influence of voltage variations 20.4 to 26.4 V (DC)	-0.81		
9	Influence of vibration (10 to 60Hz (± 0.3 mm), 60 to 160Hz at 4.9m/s ²)	0.23		
10	Measurement uncertainty (For ELV of 5 mg/m ³)	5.3%		

1.5 At a flue gas flow rate in the 3-40m/s range, the dependence of the flue gas flow rate is eliminated by the integrated flow rate compensation. To this end, the analogue input 4-20mA shall be covered with a signal to represent the flue gas flow rate.

1.6 The Manufacturer's recommendations on probe lengths should be followed. Probe lengths from 250mm to 1750mm can be used.

1.7 When using a purge air filter, adherence to the stipulated purge air amount should be checked.

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2. Acceptability of the product for use in Indian Conditions:

- 2.1 The measuring instrument **S305QAL** complies with the Indian environmental conditions.
- 2.2 The S305QAL dust monitor is a CEMS designed to measure total suspended particle concentration in a duct or stack. The measurement is based on inductive electrification technology, where particles flowing within the airstream interact with the isolated probe of the **S305QAL**.
- 2.3 The uses of **S305QAL**, 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.
- 2.4 The use of **S305QAL** technology for measurement of dust, depending on "Technical Selection & Suitability for Gaseous CEMS" as described in Table 4 of the 1st Revised Guidelines for Continuous Emission Monitoring Systems, August 2018.

3. General Note:

After assessment of the MCERTS (Certificate no. Sira MC200365/01), 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 Sintrol Oy, Ruosilantie 15 00390 Helsinki, Finland) to inform CSIR-NPL about the manufacturing modifications in the model no. **S305QAL**.

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 Sintrol Oy, Ruosilantie 15 00390 Helsinki, Finland) 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. S305QAL**.

The validity of this Verification Certificate is bound to the renewal date of the original Certificate no. Sira MC200365/01.

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