



**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.: 25100975

Certificate No.: NPLI CS/PM-CEMS/VC-2025-05

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: DustHunterSB100

Make: Endress + Hauser

**Manufactured by:**

Endress+Hauser SICK GmbH+Co. KG

Bergener Ring 27

01458 Ottendorf-Okrilla

**Issued to:**

Endress+Hauser (India) Pvt. Ltd.

Godrej One, 7B, 7th Floor, Pirojshanagar, Vikhroli - 400079 Mumbai, India

**Previously Certified by:**

TÜV RHEINLAND (Certificate no. 0000036943\_02)

*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 DustHunterSB100 verified after assessment of previously issued "Product Conformity Certificate" by TÜV RHEINLAND (Certificate no. 0000036943\_02) for the following certification ranges:

| Sr. No. | Gases | Certified Range           | Supplementary Range      |
|---------|-------|---------------------------|--------------------------|
| 1       | Dust  | 0 to 15 mg/m <sup>3</sup> | 0-15 SE 0-50 SE 0-200 SE |

Note: 100 SE (Scattered Light Unit = 15 mg/m<sup>3</sup> dust)

Table 1

1.2 The TÜV RHEINLAND (Certificate no. 0000036943\_02) issued for the Product DustHunterSB100 is only valid with the following components:

- 1.2.1 MCU Firmware Version: 01.08.00
- 1.2.2 Sender and receiver unit: 01.03.10
- 1.2.3 Control software: SOPAS ET: 02.32
- 1.2.4 DHSB-T sender/receiver unit
- 1.2.5 Signal cable connecting to sender/receiver unit to control unit (5m, 10m)
- 1.2.6 MCU control unit connected via RS 485 interface
  - 1.2.6.1 MCU-P with integrated purge supply air for internal duct pressure of -50 to +2 mbar
  - 1.2.6.2 MCU-N without integrated purge air supply
- 1.2.7 External purge air unit, for internal duct pressure of -50 to +30 mbar

1.3 The certified operational conditions of the Product DustHunterSB100 are

- 1.3.1 Ambient Temperature Range: Stack components -20°C to +50°C
- 1.3.2 IP rating: Not provided

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**1.4 The certified performance of Product DustHunterSB100**

| Sr. No. | Test Parameters                          | $\Delta X_{max. j}$     | $u^2$ |
|---------|------------------------------------------|-------------------------|-------|
| 1       | Repeatability standard deviation at span | 0.11 mg/m <sup>3</sup>  | 0.012 |
| 2       | Lack-of-fit                              | 0.09 mg/m <sup>3</sup>  | 0.003 |
| 3       | Zero drift from field test               | -0.29 mg/m <sup>3</sup> | 0.027 |
| 4       | Span drift from field test               | -0.28 mg/m <sup>3</sup> | 0.027 |
| 5       | Influence of ambient temperature at span | 0.00 mg/m <sup>3</sup>  | 0.000 |
| 6       | Influence of supply voltage              | 0.11 mg/m <sup>3</sup>  | 0.004 |
| 7       | Uncertainty of reference material        | 0.30 mg/m <sup>3</sup>  | 0.030 |
| 8       | Combined standard uncertainty            |                         | 0.320 |
| 9       | Total expanded uncertainty               |                         | 0.627 |

1.5 Dust concentration is determined in wet exhaust gas under operating conditions.

1.6 Requirements with regard to the determination coefficients  $R^2$  of the calibration function in accordance with DIN EN 15267-3 were not satisfied during the performance testing.

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

- 2.1 The measuring instrument **DustHunterSB100** complies with the Indian environmental conditions.
- 2.2 The **DustHunterSB100** system functions under the principle of backward light scattering in the wavelength of approx.. 650 nm.
- 2.3 The uses of **DustHunterSB100**, 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 **DustHunterSB100** 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 **TÜV RHEINLAND Certificate no. 0000036943\_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 Endress+Hauser (India) Pvt. Ltd. Godrej One, 7B, 7th Floor, Pirojshanagar, Vikhroli - 400079 Mumbai, India to inform CSIR-NPL about the manufacturing modifications in the model no. **DustHunterSB100**.

It is also the responsibility of M/s Endress+Hauser (India) Pvt. Ltd. Godrej One, 7B, 7th Floor, Pirojshanagar, Vikhroli - 400079 Mumbai, India 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. DustHunterSB100**.

The validity of this Verification Certificate is bound to the renewal date of the original TÜV RHEINLAND Certificate no. 0000036943\_02.

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