

CERTIFICATE

of Product Conformity (QAL1)

Certificate No: 0000074632_01

Certified AMS: DUSTHUNTER SP30 LM

Manufacturer: Endress+Hauser SICK GmbH + Co. KG
Bergener Ring 27
01458 Ottendorf-Okrilla
Germany

Test Laboratory: TÜV Rheinland Energy & Environment GmbH

**This is to certify that the AMS has been tested
and found to comply with the standards
EN 15267-1 (2009), EN 15267-2 (2023), EN 15859 (2010) and EN 14181 (2014).**

Certification is awarded in respect of the conditions stated in this certificate
(this certificate contains 9 pages).
The present certificate replaces certificate 0000074632_00 dated 3 September 2021.



Suitability Tested
EN 15267
QAL1 Certified
Regular
Surveillance

www.tuv.com
ID 0000074632

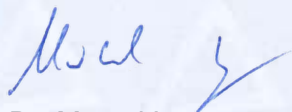
Publication in the German Federal Gazette
(BAnz) of 05 August 2021

German Environment Agency

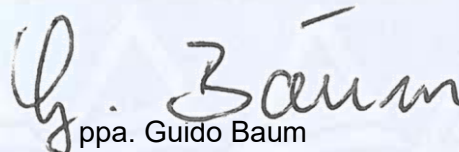
Dessau, 05 August 2026

This certificate will expire on:
04 August 2031

TÜV Rheinland
Energy & Environment GmbH
Cologne, 04 August 2026



Dr. Marcel Langner
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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 the certificate D-PL-11120-02-00.

Test report: 936/21244739/B dated 15 February 2021
Initial certification: 05 August 2021
Expiry date: 04 August 2031
Certificate: Renewal (of previous certificate 0000074632_00 of 03 September 2021 valid until 04 August 2026)
Publication: BAnz AT 05.08.2021 B5, chap. I No. 1.2

Approved application

The tested AMS is suitable for use as a leakage monitor for filter control downstream of dust collectors at installations requiring approval (13th BImSchV:2021, 17th BImSchV:2021, 30th BImSchV:2022, TA Luft:2021) as well as at installation of the 27th BImSchV:2013. The measured ranges have been selected so as to ensure as broad a field of application as possible

The suitability of the AMS for this application was assessed on the basis of a laboratory test and a field test lasting more than three months at an industrial drying plant for the production of ceramic floor coverings.

The AMS is approved for an ambient temperature range of -40 °C to +60 °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 dust concentrations relevant to the application.

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

Note

The legal regulations mentioned correspond to the current state of legislation during certification. 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 certification

This certification is based on:

- Test report 936/21244739/B of 15 February 2021 by TÜV Rheinland Energy GmbH
- Suitability announced by the German Federal Environment Agency (UBA) as the relevant body
- The ongoing surveillance of the product and the manufacturing process

Publication in the German Federal Gazette: BAnz AT 05.08.2021 B5, chap. I No. 1.2,
UBA announcement dated 29 June 2021:

AMS designation:

DUSTHUNTER SP30 LM

Manufacturer:

SICK Engineering GmbH, Ottendorf-Okrilla

Field of application:

Leakage monitor for filter control downstream of dust separators on plants requiring approval and installations according to the 27th BImSchV

Lower triggering threshold in the performance test

5 mg/m³

Software versions:

Sensor: 02.00.10

SOPAS ET: 3.2.4 Build 1103

Restriction:

The measuring system may only be used on installations where falling below the water dew point can be ruled out.

Notes:

1. The maintenance interval is four weeks.
2. The dust concentration is determined in wet test flue gas under operational conditions.
3. The tested ambient temperature range for use of the measuring system is -40 to +60°C.

Test Report:

TÜV Rheinland Energy GmbH, Cologne

Report no.: 936/21244739/B of 15 February 2021

Publication in the German Federal Gazette: BAnz AT 20.03.2023 B6, chap. IV notification 34, UBA announcement dated 21 February 2023:

34 Notification as regards Federal Environment Agency (UBA) notice of 29 June 2021 (BAnz AT 05.08.2021 B5, chapter I number 1.2)

The current software versions for the DUSTHUNTER SP30 LM measuring system as a leakage monitor for filter control downstream of dust separators from the company SICK Engineering GmbH are:
Sensor: 02.06.00, SOPAS ET: 3.2.4 Build 1103

Statement issued by TÜV Rheinland Energy GmbH dated 16 September 2022

Publication in the German Federal Gazette: BAnz AT 02.08.2023 B7, chap. III notification 16, UBA announcement dated 5 July 2023:

16 Notification as regards Federal Environment Agency (UBA) notices of 29 June 2021 (BAnz AT 05.08.2021 B5, chapter I number 1.2) and of 21 February 2023 (BAnz AT 20.03.2023 B6, chapter IV notification 34)

The current software versions for the DUSTHUNTER SP30 LM measuring system as a leakage monitor for filter control downstream of dust separators from the company SICK Engineering GmbH are:
Sensor: 02.06.02
SOPAS ET: 3.2.4 Build 1103

Statement issued by TÜV Rheinland Energy GmbH dated 31 March 2023

Publication in the German Federal Gazette: BAnz AT 10.05.2024 B7, chap. V notification 31, UBA announcement dated 19 March 2024:

31 Notification as regards Federal Environment Agency (UBA) notices of 29 June 2021 (BAnz AT 05.08.2021 B5, chapter I number 1.2) and of 5 July 2023 (BAnz AT 02.08.2023 B7, chapter III notification 16)

The current software versions for the DUSTHUNTER SP30 LM measuring system as a leakage monitor for filter control downstream of dust separators from the company SICK Engineering GmbH are:
Sensor: 02.06.04
SOPAS ET: 3.2.4 Build 1103

Statement issued by TÜV Rheinland Energy GmbH dated 27 September 2023

Publication in the German Federal Gazette: BAnz AT 31.10.2024 B9, chap. IV notification 33,
UBA announcement dated 21 August 2024:

**33 Mitteilung zur Bekanntmachung des Umweltbundesamtes
of 29 June 2021 (BAnz AT 05.08.2021 B5, chapter I number 1.2) and
of 19 March 2024 (BAnz AT 10.05.2024 B7, chapter V notification 31)**

The current software versions for the DUSTHUNTER SP30 LM measuring system
as a leakage monitor for filter control downstream of dust separators
from the company SICK Engineering GmbH are:

Sensor: 02.08.00

SOPAS ET: 3.2.4 Build 1103

Statement issued by TÜV Rheinland Energy GmbH dated 10 May 2024

Publication in the German Federal Gazette: BAnz AT 19.05.2025 B3, chap. IV notification 6,
UBA announcement dated 2 April 2025:

**6 Notification as regards Federal Environment Agency (UBA) notices
of 29 June 2021 (BAnz AT 05.08.2021 B5, chapter I number 1.2) and
of 21 August 2024 (BAnz AT 31.10.2024 B9, chapter IV notification 33)**

The current software versions for the DUSTHUNTER SP30 LM measuring system
as a leakage monitor for filter control downstream of dust separators
from the company SICK Engineering GmbH are:

Sensor: 2.08.01

SOPAS ET: 3.2.4 Build 1103

The analytics division of Sick AG and Sick Engineering GmbH (flow and dust
measurement technology) have entered into a joint venture with Endress+Hauser.
From 9 December 2024, the companies will operate under the new name
“Endress+Hauser SICK GmbH + Co. KG”. As a result, QAL1-certified products will
in future be marketed under this joint company name.

The joint venture company address is:
Endress+Hauser SICK GmbH + Co. KG
Bergener Ring 27
01458 Ottendorf-Okrilla, Germany

Statement issued by TÜV Rheinland Energy & Environment GmbH
dated 20 December 2024

Certified product

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

The measuring system uses scattered light as its measuring principle (forward scattering). A laser diode irradiates the dust particles in the gas flow with modulated light in the visible range (wavelength approx. 650 nm). The light scattered by the particles is detected by a highly sensitive detector, electrically amplified and fed to the measuring channel of a microprocessor as the central part of the measuring, control and evaluation electronics.

The measured scattered light intensity (SI) is proportional to the dust concentration (c). However, since the scattered light intensity depends not only on the number and size of the particles but also on their optical properties, the measuring system must be calibrated through gravimetric parallel measurements in order to guarantee an exact measurement of dust concentrations, according to EN 17389.

The tested version of the AMS is available in the following two versions:

- DUSTHUNTER SP30 LM measuring system for use in ducts with a diameter greater than 150 mm. The DUSTHUNTER SP30 LM can be attached to a flange with quick-release fastener (Tri-Clamp®) or a 1" thread on the duct.
- DUSTHUNTER SP30 LM measuring system for use in ducts with a diameter greater than 250 mm. Mounting on the duct is done via a flange with pipe.

The DUSTHUNTER SP30 LM measuring system consists of the components:

- Transceiver unit (probe)
- Connection cable for connection of the transceiver unit for 24V power supply on site and output of the data by analogue output and Modbus via RS485 interface
- Assembly components: Flange with tube, 1" thread or flange with quick release Tri-Clamp
- Purge air supply

A well-functioning purge air supply is essential for the function of an optically working dust measuring system.

The purge air supply for the DUSTHUNTER SP30 LM measuring system depends on the pressure conditions in the measurement channel. At a pressure difference of -50 to +10 hPa, the integrated purge air supply can be used; at differential pressures of -50 to +30 hPa, an external purge air supply with purge air reduction must be used; at differential pressures of -50 to +100 hPa, an external compressed air supply (free of dust, oil, moisture and non-corrosive) must be used.

The measuring system can be used in accordance with the specifications of EN 17389:2020-07 (Emissions from stationary sources - Quality assurance and quality control procedures for automatic dust collector monitoring systems). The specifications of the standard must be taken into account during maintenance, calibration and operation of the measuring system.

The versions of the measuring system covered by the certification result from the following type code:

Device identification type:	DHSP30 - T 2 V 2 F NN NN NNXX S
DUSTHUNTER scattered light measurement probe	
- T: Sender/receiver unit	
Probe material resistance	
- 2: 220 °C	
- 4: 400 °C	
Material	
- V: Probe + protective tube, stainless steel	
- K: Probe + protective tube, non-corrosive coating	
Nominal length (NL)	
- B: 280 mm	
- 2: 735 mm	
Version	
- F: Flange with tube	
- T: Tri-Clamp	
- G: 1" thread	
- X: Special version	
Purge air supply	
- N: Without	
- P: With integrated purge air	
Display	
- N: Without	
- D: With integrated display	
Approval	
- LM: Leakage monitor for filter check	
Ex identification	
- NNXX: Without	
Special and sample devices	
- S: Standard	

General notes

This certificate is based upon the equipment tested. The manufacturer is responsible for ensuring that on-going production complies with the requirements of the EN 15267. The manufacturer is required to maintain an approved quality management system controlling the manufacture of the certified product. Both the product and the quality management systems shall be subject to regular surveillance.

If a product of the current production does not conform to the certified product, TÜV Rheinland Energy & Environment GmbH must be notified at the address given on page 1.

A certification mark with an ID-Number that is specific to the certified product is presented on page 1 of this certificate. This certification mark may be applied to the product or used in advertising materials for the certified product.

This document as well as the certification mark remains property of TÜV Rheinland Energy & Environment GmbH. Upon revocation of the publication the certificate loses its validity. After the expiration of the certificate and on request of TÜV Rheinland Energy & Environment GmbH this document shall be returned and the certificate mark must no longer be used.

The relevant version of this certificate and its expiration date are also accessible on the internet: gal1.de.

Document history

Certification of the DUSTHUNTER SP30 LM measuring system is based on the documents listed below and the regular, continuous surveillance of the manufacturer's quality management system:

Initial certification according to EN 15267

Certificate no. 0000074632_00: 03 September 2021
Expiry date of the certificate: 04 August 2026
Test report: 936/21244739/B of 15 February 2021
TÜV Rheinland Energy GmbH
Publication: BAnz AT 05.08.2021 B5, chap. I No. 1.2
UBA announcement dated 29 June 2021

Notifications

Statement issued by TÜV Rheinland Energy GmbH dated 16 September 2022
Publication: BAnz AT 20.03.2023 B6, chapter IV notification 34
UBA announcement dated 21 February 2023
(Software changes)

Statement issued by TÜV Rheinland Energy GmbH dated 31 March 2023
Publication: BAnz AT 02.08.2023 B7, chapter III notification 16
UBA announcement dated 05 July 2023
(Software changes)

Statement issued by TÜV Rheinland Energy GmbH dated 27 September 2023
Publication: BAnz AT 10.05.2024 B7, chapter V notification 31
UBA announcement dated 19 March 2024
(Software changes)

Statement issued by TÜV Rheinland Energy & Environment GmbH dated 10 May 2024
Publication: BAnz AT 31.10.2024 B9, chapter IV notification 33
UBA announcement dated 21 August 2024
(Software changes)

Statement issued by TÜV Rheinland Energy & Environment GmbH dated 20 December 2024
Publication: BAnz AT 19.05.2025 B3, chapter IV notification 6
UBA announcement dated 02 April 2025
(Software changes and new manufacturer name)

Renewal of certificates

Certificate no. 0000074632_01: 05 August 2026
Expiry date of the certificate: 04 August 2031