Umwelt 📦 **Bundesamt** 



# CERTIFICATE

# of Product Conformity (QAL1)

Certificate No.: 0000040334

Certified DAHS:	MEAC2012
Manufacturer:	SICK AG Nimburger Str. 11 79276 Reute Germany
Test Institute:	TÜV Rheinland Energie und Umwelt GmbH
	This is to certify that the DAHS has been tested

and found to comply with:

# Emissions data evaluation and teletransmission according to Uniform Practice in monitoring emissions\*, teletransmission definition 2005, EN 15267-1: 2009, EN 15267-2: 2009

Certification is awarded in respect of the conditions stated in this certificate (see also the following pages).



Publication in the German Federal Gazette (BAnz.) of 5 March 2013

German Federal Environment Agency Dessau, 9 September 2014

March

i. A. Dr. Marcel Langner

**QAL1** Certified Surveillance

www.tuv.com ID 0000040334

This certificate will expire on: 4 August 2019

TÜV Rheinland Energie und Umwelt GmbH Cologne, 8 September 2014

P. P.A.Co. a

ppa. Dr. Peter Wilbring

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Accreditation according to EN ISO/IEC 17025 and certified according to ISO 9001:2008.

\* Uniform Practice in monitoring emissions,

- Circular from Federal Environment Ministry of 2005-06-13 - IG | 2 - 45053/5 and from 2010-08-04 - Az.: IG | 2- 51134/0

# Umwelt 🎧 Bundesamt

Certificate: 0000040334 / 9 September 2014



Test report: Initial certification: Expiry date: Publication: 1724510 of 9 January 20135 August 20144 August 2019BAnz AT 5 March 2013 B10, chapter III, no. 1.1

## **Approved application**

The tested system for emission data evaluation is suitable for collecting and evaluating data from continuous emission measurements at installations with continuous surveillance. The system also facilitates the remote monitoring of emission data.

Assessments were made during a suitability test in a laboratory and in a three-month field test at a domestic waste incineration plant.

The emission data evaluation system is approved for an ambient temperature range of -5 °C to +50 °C.

Any potential user should ensure, in consultation with the manufacturer, that this emission data evaluation system is suitable for the plant at which it will be installed.

### Basis of the certification

This certification is based on:

- test report 1724510 of 9 January 2013 of TÜV Süd Industrie Service GmbH, Munich
- 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 5 March 2013 B10, chapter III, no. 1.1, UBA announcement of 12 February 2013
- publication in the German Federal Gazette: BAnz AT 23 July 2013 B4, chapter IV, notification 12 [no. 16], UBA announcement of 3 July 2013
- publication in the German Federal Gazette: BAnz AT 1 April 2014 B12, chapter VI, notification 5 UBA announcement of 27 February 2014
- publication in the German Federal Gazette: BAnz AT 5 August 2014 B11, chapter V, notification 28 UBA announcement of 17 July 2014

# Umwelt 🎲 Bundesamt

Certificate: 0000040334 / 9 September 2014



# **AMS designation:**

MEAC2012 (software version 3.00)

# Manufacturer:

SICK Maihak GmbH, Hamburg

### Field of application:

Emission data collection, analysis and transfer of emission values at installations with continuous surveillance.

# Software version:

3.00

#### **Restriction:**

When using DAEs to collect data the ambient temperature shall not fall below -5 °C.

#### Notes:

Supplementary testing (software change to version 3.0) as regards Federal Environment Agency (UBA) notices of 21 February 2006 (Federal Gazette (BAnz) p. 2653, chapter III no. 1.5).

## Test report:

TÜV Süd Industrie Service GmbH, Munich Report no.: 1724510 of 9 January 2013

# 12 Notification as regards Federal Environment Agency notices on performance tested measuring systems manufactured by SICK MAIHAK GmbH

No.	Measuring system / manufacturer	Notification	Notice	Statement test institute
16	MEAC2012/ SICK MAIHAK GmbH	12 February 2013 (BAnz AT 5 March 2013 B10, chapter III no. 1.1)	SICK MAIHAK GmbH merged with its parent company SICK AG as of 1 January 2013. The manu- facturer is now registered as SICK AG.	Statement of TÜV Rhein- land Energie und Umwelt GmbH of 25 March 2013



Certificate: 0000040334 / 9 September 2014



Notification as regards Federal Environment Agency notices of 12 February 2013 (Federal Gazette (BAnz) AT, 5 March 2013, B10, chapter III, no. 1.1) and of 3 July 2013 (Federal Gazette (BAnz) AT, 23 July 2013, B4, chapter V, 12<sup>th</sup> notification [no. 16])

The current software version for the MEAC2012 manufactured by SICK AG, Hamburg is 3.1.

Statement of TÜV Rheinland Energie und Umwelt GmbH of 30 September 2013

# 28 Notification as regards Federal Environment Agency notices of 12 February 2013 (Federal Gazette (BAnz) AT, 5 March 2013, B10, chapter III, no. 1.1) and of 27 February 2014 (Federal Gazette (BAnz) AT, 1 April 2014, B12, chapter VI, 5<sup>th</sup> notification)

The emissions calculator MEAC2012 manufactured by Sick AG fulfils the requirements of the uniform practice in performance testing of measuring and evaluation instruments (BMU circular of 13 June 2005, last amended by BMU circular of 4 August 2010). In addition, the manufacturing process and quality management system of the measuring system fulfil the requirements of Standard EN 15267.

The current software version of MEAC2012 is 3.4.

The module MEAC GHG can be used to evaluate THG emissions.

Statement of TÜV Rheinland Energie und Umwelt GmbH of 3 April 2014

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# **Certified system**

This confirmation applies systems for emission data evaluation confirming to the following description:

The MEAC2012 system consists of:

- Data acquisition unit DAE or Wago modules
- Emission calculator with MAEC2012 software

# **Function of DAE**

DAE are micro-processor controlled devices for data input. They can be installed decentrally and are used for the following tasks:

- Acquiring mA-input signals and averaging them over 5 seconds
- Logging of status input signals
- Transfer of the calculated analogue and status signals to the computer
- Intermediate storage of all input values in the case of a computer malfunction (capacity e.g. 14 days for 16 analogue and 32 status inputs)

#### **Function of WAGO**

Within a WAGO field bus node inputs and outputs can be connected to the emission value calculator both directly (serial) and over an AS-Interface level e.g. Ethernet or PROFIBUS.

- Number of E/A-modules: 99 with repeater
- Number of E/A points: approx. 6000 (depends on the master)

#### Standard configuration of the emission calculator

- MS-Windows XP or Win7
- 2048 MB RAM, hard drive 2x 280 GB
- DVD writer, DCF77 radio controlled clock
- Interface: 6x COM, 1xLPT, USB 2.0. network, video, SATA
- Monitor, keyboard, mouse, printer
- Analogue or ISDN modem for remote maintenance and emissions remote transfer system (EFÜ)
- USP unit (optional)

#### Function of MEAC2012-PC

- Acquisition of measurement signals
  - A MEAC2012 Emissions calculator administers up to
    - 800 analogue inputs and 400 analogue outputs
    - 2000 status inputs and 1000 status outputs

# Features of the MEAC2012 software

- Storing, processing, presentation of measurement data
- Information and integration of operational values
- Data output and remote transmission

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#### **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 Energie und Umwelt 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 can be applied to the product or used in publicity material for the certified product.

This document as well as the certification mark remains property of TÜV Rheinland Energie und Umwelt GmbH. With revocation of the publication the certificate loses its validity. After the expiration of the certificate and on requests of the TÜV Rheinland Energie und Umwelt GmbH this document shall be returned and the certificate mark must not be employed anymore.

The relevant version of this certificate and its expiration is also accessible on the internet: **qal1.de**.

Certification of MEAC2012 (Software-Version 3.00) is based on the documents listed below and the regular, continuous monitoring of the Quality Management System of the manufacturer:

# First suitability test

Test report: 628172 of 23 December 2005 TÜV Süd Industrie Service GmbH, Munich

Publication: BAnz AT 8 April 2006, no. 70, p. 2653 UBA announcement of 21 February 2006

#### First supplementary test

Test report: 1724510 of 9 January 2013 TÜV Süd Industrie Service GmbH, Munich

Publication: BAnz AT 5 March 2013 B10, chapter III, no. 1.1 UBA announcement of 12 February 2013

#### Notices

Publication: BAnz AT 23 July 2013 B4, chapter IV, notification 12 [no. 16] UBA announcement of 3 July 2013 (change of software version)

Publication: BAnz AT 1 April 2014 B12, chapter VI, notification 5 UBA announcement of 27 February 2014 (change in manufacturer's designation)

Publication: BAnz AT 5 August 2014 B11, chapter V, notification 28 UBA announcement of 17 July 2014 (implementation acc. to EN 15267, change of software version)

#### Initial certification according to EN 15267

Certificate no. 0000040334: 9 September 2014

Expiry date of the certificate: 4 August 2019

Test report: 1724510 of 9 January 2013 TÜV Süd Industrie Service GmbH, Munich

Publication: BAnz AT 5 August 2014 B11, chapter V, notification 28 UBA announcement of 17 July 2014

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