

CERTIFICATE

of Product Conformity (QAL1)

Certificate No.: 0000062062

AMS designation: ZPA-CEMS for CO, NO, SO₂, CO₂ and O₂

Manufacturer: Fuji Electric France S.A.S.
46, Rue Georges Besse, ZI du Brézet
63039 Clermont-Ferrand Cedex 2,
France

Test Laboratory: TÜV Rheinland Energy GmbH

**This is to certify that the AMS has been tested
and found to comply with:**

**EN 15267-1: 2009, EN 15267-2: 2009, EN 15267-3: 2007
and EN 14181: 2014**

Certification is awarded in respect of the conditions stated in this certificate
(this certificate contains 12 pages).



Suitability Tested
EN 15267
QAL1 Certified
Regular Surveillance

www.tuv.com
ID 0000062062

Publication in the German Federal Gazette
(BAnz) of 26 March 2019

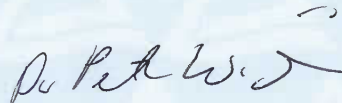
This certificate will expire on:
25 March 2024

German Federal Environment Agency
Dessau, 12 June 2019

TÜV Rheinland Energy GmbH
Cologne, 11 June 2019



Dr Marcel Langner
Head of Section II 4.1



ppa. Dr Peter Wilbring

www.umwelt-tuv.eu
tre@umwelt-tuv.eu
Phone: + 49 221 806-5200

TÜV Rheinland Energy GmbH
Am Grauen Stein
51105 Köln

Test institute accredited to EN ISO/IEC 17025:2005 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: 936/21239789/A dated 21 September 2018
Initial certification: 26 March 2019
Expiry date: 25 March 2024
Publication: BAnz AT 26.03.2019 B7, chapter I number 2.1

Approved application

The tested AMS is suitable for use at combustion plants according to Directive 2010/75/EU, chapter III (13th BImSchV), and TA Luft. 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 at a large combustion plant (hard coal firing) for a period of more than three months.

The AMS is approved for an ambient temperature range of +5 °C to +40 °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 limit values relevant to the application.

Any potential user should ensure, in consultation with the manufacturer, that this AMS is suitable for the installation at which it will be installed.

Basis of the certification

This certification is based on:

- Test report no. 936/21239789/A dated 21 September 2018 issued 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 26.03.2019 B7, chapter I number 2.1, UBA announcement dated 27 February 2019:

AMS designation:

ZPA-CEMS for CO, NO, SO₂, CO₂ and O₂

Manufacturer:

Fuji Electric France S.A.S, 46, Rue Georges Besse, ZI du Brézet, 63039 Clermont-Ferrand CEDEX 2, France

Field of application:

Modular AMS for measurement at plants according to the 13th BImSchV and TA Luft

Measuring ranges during performance testing:

Component	Certification range	supplementary ranges		Unit
CO	0–375	0–625	0–2 500	mg/m ³
NO	0–268	0–670	0–2 680	mg/m ³
SO ₂	0–571	0–1 428	0–5 710	mg/m ³
CO ₂	0–20	-	-	vol.-%
O ₂ para.	0–25	0–10	-	vol.-%
O ₂ (ZrO ₂)	0–25	0–10	-	vol.-%

Software version:

2.02g

Restrictions:

None

Notes:

1. The maintenance interval is four weeks.
2. There are two alternatives for measuring oxygen: the paramagnetic oxygen sensor (O₂ (para)) or the zirconium dioxide sensor (O₂ (ZrO₂)).
3. For measuring the components CO, NO, SO₂ and CO₂, the interval for automatic zero point adjustment must be set to 24 h.

4. The measuring system can be distributed with various combinations of measurement channels. The following table lists the AMS designation which indicates the relevant scope of measured components:

Designation			Combination of IR components
Without O ₂ measurement	With O ₂ measurement (ZrO ₂)	With O ₂ measurement (para)	
	ZPA-Yz	ZPA-Yp	O ₂
ZPA-B	ZPA-Bz	ZPA-Bp	CO
ZPA-Z	ZPA-Zz	ZPA-Zp	CO + SO ₂
ZPA-P	ZPA-Pz	ZPA-Pp	NO
ZPA-F	ZPA-Fz	ZPA-Fp	NO + SO ₂
ZPA-D	ZPA-Dz	ZPA-Dp	CO ₂
ZPA-G	ZPA-Gz	ZPA-Gp	CO + NO
ZPA-J	ZPA-Jz	ZPA-Jp	CO + CO ₂
ZPA-N	ZPA-Nz	ZPA-Np	CO + NO + SO ₂
ZPA-W	ZPA-Wz	ZPA-Wp	CO + NO + CO ₂
ZPA-Q	ZPA-Qz	ZPA-Qp	CO + NO + SO ₂ + CO ₂

5. The system must be operated with the span check deactivated, since this has not been tested. Synthetic air is used for automatic zero point adjustment.

Test Report:

TÜV Rheinland Energy GmbH, Cologne
Report no.: 936/21239789/A dated 21 September 2018

Certified product

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

The modular ZPA-CEMS measuring system is an extractive system and comprises the following components:

- Air-conditioned measuring cabinet (SPACIAL SF NSYSF20860P, Schneider Electric),
- Heated sampling probe (SP2000-H with ceramics filter, 180 °C, M&C TechGroup),
- Heated sampling line,
- Compressor cooler (ECM, dew point 5 °C, M&C TechGroup),
- Sample gas pump and
- Analyser modules.

The ZPA analyser itself measures the components CO, NO, SO₂ and CO₂ using NDIR. There are two alternatives for measuring O₂: either a paramagnetic measuring cell (sensor is installed in the enclosure of the ZPA analyser downstream of the optical benches) or a ZFK-7 zirconium dioxide sensor (sensor is installed upstream of the ZPA analyser enclosure).

Module configurations:

Designation			Combination of IR components
Without O ₂ measurement	With O ₂ measurement (ZrO ₂)	With O ₂ measurement (para)	
	ZPA-Yz	ZPA-Yp	O ₂
ZPA-B	ZPA-Bz	ZPA-Bp	CO
ZPA-Z	ZPA-Zz	ZPA-Zp	CO + SO ₂
ZPA-P	ZPA-Pz	ZPA-Pp	NO
ZPA-F	ZPA-Fz	ZPA-Fp	NO + SO ₂
ZPA-D	ZPA-Dz	ZPA-Dp	CO ₂
ZPA-G	ZPA-Gz	ZPA-Gp	CO + NO
ZPA-J	ZPA-Jz	ZPA-Jp	CO + CO ₂
ZPA-N	ZPA-Nz	ZPA-Np	CO + NO + SO ₂
ZPA-W	ZPA-Wz	ZPA-Wp	CO + NO + CO ₂
ZPA-Q	ZPA-Qz	ZPA-Qp	CO + NO + SO ₂ + CO ₂

The ZFK7 sensor (ZrO₂) is connected to the ZPA analyser module such that the ZPA analyser module is used entirely for measured value output, operation and parameterisation of the ZFK7.

Measured value output of the measuring system refers to dry gas under normal conditions.

The measuring system provides an option for automatic zero and span check and adjustment. This can be effected directly using (static) test gas application or via a probe when (dynamically) applying test gas.

Zero point adjustment during performance testing was performed every 24 h (6 min. purging duration) for the measured NDIR components. Synthetic air from a pressurised gas cylinder served as zero gas; it is also possible to use nitrogen or dry, clean compressed air/instrument air. Zero gas was provided to the measuring system via (static) application.

General remarks

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 manufacturing process for 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 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 GmbH. Upon revocation of the publication the certificate loses its validity. After the expiration of the certificate and on request of TÜV Rheinland Energy 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 at qal1.de.

Document history

Certification of the ZPA-CEMS 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. 0000062062: 12 June 2019
Expiry date of the certificate: 25 March 2024
Test report no.936/21239789/A dated 21 September 2018
TÜV Rheinland Energy GmbH, Cologne
Publication: BAnz AT 26.03.2019 B7, chapter I number 2.1
UBA announcement dated 27 February 2019

Calculation of overall uncertainty according to EN 14181 and EN 15267-3

Measuring system

Manufacturer	Fuji Electric
AMS designation	ZPA-CEMS
Serial number of units under test	N7CO387 / N4C1455T
Measuring principle	NDIR

Test report

Test laboratory	936/21239789/A
Date of report	TÜV Rheinland
	2018-09-21

Measured component

Certification range	CO	0 - 375 mg/m ³
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Evaluation of the cross-sensitivity (CS)

(system with largest CS)

Sum of positive CS at zero point	0.00 mg/m ³
Sum of negative CS at zero point	0.00 mg/m ³
Sum of positive CS at span point	4.10 mg/m ³
Sum of negative CS at span point	-2.40 mg/m ³
Maximum sum of cross-sensitivities	4.10 mg/m ³
Uncertainty of cross-sensitivity	u_i 2.367 mg/m ³

Calculation of the combined standard uncertainty

Tested parameter

		u^2
Standard deviation from paired measurements under field conditions *	u_D 1.975 mg/m ³	3.901 (mg/m ³) ²
Lack of fit	u_{lof} -1.169 mg/m ³	1.367 (mg/m ³) ²
Zero drift from field test	$u_{d,z}$ 1.588 mg/m ³	2.522 (mg/m ³) ²
Span drift from field test	$u_{d,s}$ 2.309 mg/m ³	5.331 (mg/m ³) ²
Influence of ambient temperature at span	u_t 1.400 mg/m ³	1.960 (mg/m ³) ²
Influence of supply voltage	u_v 1.429 mg/m ³	2.042 (mg/m ³) ²
Cross-sensitivity (interference)	u_i 2.367 mg/m ³	5.603 (mg/m ³) ²
Influence of sample gas flow	u_p -0.992 mg/m ³	0.984 (mg/m ³) ²
Uncertainty of reference material at 70% of certification range	u_{rm} 3.031 mg/m ³	9.188 (mg/m ³) ²

* The larger value is used :

"Repeatability standard deviation at set point" or

"Standard deviation from paired measurements under field conditions"

Combined standard uncertainty (u_c)

$$u_c = \sqrt{\sum (u_{max,j})^2} = 5.74 \text{ mg/m}^3$$

Total expanded uncertainty

$$U = u_c * k = u_c * 1.96 = 11.24 \text{ mg/m}^3$$

Relative total expanded uncertainty

Requirement of 2010/75/EU

Requirement of EN 15267-3

U in % of the ELV 150 mg/m³ 7.49

U in % of the ELV 150 mg/m³ 10.00

U in % of the ELV 150 mg/m³ 7.50

Calculation of overall uncertainty according to EN 14181 and EN 15267-3

Measuring system

Manufacturer	Fuji Electric
AMS designation	ZPA-CEMS
Serial number of units under test	N7CO387 / N4C1455T
Measuring principle	NDIR

Test report

Test laboratory	936/21239789/A
Date of report	TÜV Rheinland
	2018-09-21

Measured component

Certification range	NO	0 - 268 mg/m ³
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Evaluation of the cross-sensitivity (CS)

(system with largest CS)

Sum of positive CS at zero point	2.63 mg/m ³
Sum of negative CS at zero point	0.00 mg/m ³
Sum of positive CS at span point	2.63 mg/m ³
Sum of negative CS at span point	-1.69 mg/m ³
Maximum sum of cross-sensitivities	2.63 mg/m ³
Uncertainty of cross-sensitivity	u_i 1.516 mg/m ³

Calculation of the combined standard uncertainty

Tested parameter

			u^2
Standard deviation from paired measurements under field conditions *	u_D	2.153 mg/m ³	4.635 (mg/m ³) ²
Lack of fit	u_{lof}	0.573 mg/m ³	0.328 (mg/m ³) ²
Zero drift from field test	$u_{d,z}$	-1.393 mg/m ³	1.940 (mg/m ³) ²
Span drift from field test	$u_{d,s}$	2.166 mg/m ³	4.692 (mg/m ³) ²
Influence of ambient temperature at span	u_t	2.343 mg/m ³	5.490 (mg/m ³) ²
Influence of supply voltage	u_v	1.164 mg/m ³	1.355 (mg/m ³) ²
Cross-sensitivity (interference)	u_i	1.516 mg/m ³	2.298 (mg/m ³) ²
Influence of sample gas flow	u_p	-0.484 mg/m ³	0.234 (mg/m ³) ²
Uncertainty of reference material at 70% of certification range	u_{rm}	2.166 mg/m ³	4.693 (mg/m ³) ²

* The larger value is used :
"Repeatability standard deviation at set point" or
"Standard deviation from paired measurements under field conditions"

Combined standard uncertainty (u_c)	$u_c = \sqrt{\sum (u_{max,j})^2}$	5.07 mg/m ³
Total expanded uncertainty	$U = u_c * k = u_c * 1.96$	9.93 mg/m ³

Relative total expanded uncertainty

Requirement of 2010/75/EU	U in % of the ELV 107.2 mg/m³	9.3
Requirement of EN 15267-3	U in % of the ELV 107.2 mg/m³	20.0
	U in % of the ELV 107.2 mg/m³	15.0

Calculation of overall uncertainty according to EN 14181 and EN 15267-3

Measuring system

Manufacturer	Fuji Electric
AMS designation	ZPA-CEMS
Serial number of units under test	N7CO387 / N4C1455T
Measuring principle	NDIR

Test report

Test laboratory	936/21239789/A
Date of report	TÜV Rheinland
	2018-09-21

Measured component

Certification range	SO ₂	0 - 571 mg/m ³
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Evaluation of the cross-sensitivity (CS)

(system with largest CS)

Sum of positive CS at zero point	8.11 mg/m ³
Sum of negative CS at zero point	-5.14 mg/m ³
Sum of positive CS at span point	3.71 mg/m ³
Sum of negative CS at span point	-16.90 mg/m ³
Maximum sum of cross-sensitivities	-16.90 mg/m ³
Uncertainty of cross-sensitivity	u_i -9.758 mg/m ³

Calculation of the combined standard uncertainty

Tested parameter

		u^2	
Standard deviation from paired measurements under field conditions *	u_D 4.538 mg/m ³	20.593	(mg/m ³) ²
Lack of fit	u_{lof} 0.593 mg/m ³	0.352	(mg/m ³) ²
Zero drift from field test	$u_{d,z}$ -3.956 mg/m ³	15.650	(mg/m ³) ²
Span drift from field test	$u_{d,s}$ 3.297 mg/m ³	10.870	(mg/m ³) ²
Influence of ambient temperature at span	u_t 5.009 mg/m ³	25.090	(mg/m ³) ²
Influence of supply voltage	u_v 2.031 mg/m ³	4.125	(mg/m ³) ²
Cross-sensitivity (interference)	u_i -9.758 mg/m ³	95.219	(mg/m ³) ²
Influence of sample gas flow	u_p -2.953 mg/m ³	8.720	(mg/m ³) ²
Uncertainty of reference material at 70% of certification range	u_{rm} 4.615 mg/m ³	21.301	(mg/m ³) ²

* The larger value is used :

"Repeatability standard deviation at set point" or

"Standard deviation from paired measurements under field conditions"

Combined standard uncertainty (u_c)

$$u_c = \sqrt{\sum (u_{max,j})^2} \quad 14.21 \text{ mg/m}^3$$

Total expanded uncertainty

$$U = u_c * k = u_c * 1.96 \quad 27.85 \text{ mg/m}^3$$

Relative total expanded uncertainty

U in % of the ELV 228.4 mg/m³ 12.2

Requirement of 2010/75/EU

U in % of the ELV 228.4 mg/m³ 20.0

Requirement of EN 15267-3

U in % of the ELV 228.4 mg/m³ 15.0

Calculation of overall uncertainty according to EN 14181 and EN 15267-3

Measuring system

Manufacturer	Fuji Electric
AMS designation	ZPA-CEMS
Serial number of units under test	N7CO387 / N4C1455T
Measuring principle	NDIR

Test report

Test laboratory	936/21239789/A
Date of report	TÜV Rheinland
	2018-09-21

Measured component

Certification range	CO ₂
	0 - 20 Vol.-%

Evaluation of the cross-sensitivity (CS)

(system with largest CS)

Sum of positive CS at zero point	0.00	Vol.-%
Sum of negative CS at zero point	0.00	Vol.-%
Sum of positive CS at span point	0.00	Vol.-%
Sum of negative CS at span point	-0.20	Vol.-%
Maximum sum of cross-sensitivities	-0.20	Vol.-%
Uncertainty of cross-sensitivity	u_i	-0.115 Vol.-%

Calculation of the combined standard uncertainty

Tested parameter

				u^2	
Standard deviation from paired measurements under field conditions *	u_D	0.102	Vol.-%	0.010	(Vol.-%) ²
Lack of fit	u_{lof}	0.087	Vol.-%	0.008	(Vol.-%) ²
Zero drift from field test	$u_{d,z}$	-0.058	Vol.-%	0.003	(Vol.-%) ²
Span drift from field test	$u_{d,s}$	0.300	Vol.-%	0.090	(Vol.-%) ²
Influence of ambient temperature at span	u_t	0.058	Vol.-%	0.003	(Vol.-%) ²
Influence of supply voltage	u_v	0.047	Vol.-%	0.002	(Vol.-%) ²
Cross-sensitivity (interference)	u_i	-0.115	Vol.-%	0.013	(Vol.-%) ²
Influence of sample gas flow	u_p	-0.077	Vol.-%	0.006	(Vol.-%) ²
Uncertainty of reference material at 70% of certification range	u_{rm}	0.162	Vol.-%	0.026	(Vol.-%) ²

* The larger value is used :

"Repeatability standard deviation at set point" or

"Standard deviation from paired measurements under field conditions"

Combined standard uncertainty (u_c)

$$u_c = \sqrt{\sum (u_{max,j})^2} \quad 0.40 \text{ Vol.-%}$$

Total expanded uncertainty

$$U = u_c * k = u_c * 1.96 \quad 0.79 \text{ Vol.-%}$$

Relative total expanded uncertainty

Requirement of 2010/75/EU

Requirement of EN 15267-3

U in % of the range 20 Vol.-%

U in % of the range 20 Vol.-%

U in % of the range 20 Vol.-%

3.9

10.0 **

7.5

** The EU-directive 2010/75/EU on industrial emissions provides no requirements for this component.

A value of 10.0 % was used for this.

Calculation of overall uncertainty according to EN 14181 and EN 15267-3

Measuring system

Manufacturer	Fuji Electric
AMS designation	ZPA-CEMS
Serial number of units under test	N7CO387 / N4C1455T
Measuring principle	Paramagnetisch

Test report

Test laboratory	936/21239789/A
Date of report	TÜV Rheinland
	2018-09-21

Measured component

Certification range	O ₂ (Para)
	0 - 25 Vol.-%

Evaluation of the cross-sensitivity (CS)

(system with largest CS)

Sum of positive CS at zero point	0.00	Vol.-%
Sum of negative CS at zero point	0.00	Vol.-%
Sum of positive CS at span point	0.00	Vol.-%
Sum of negative CS at span point	0.00	Vol.-%
Maximum sum of cross-sensitivities	0.00	Vol.-%
Uncertainty of cross-sensitivity	u _i	0.000 Vol.-%

Calculation of the combined standard uncertainty

Tested parameter

				u ²	
Standard deviation from paired measurements under field conditions *	u _D	0.056	Vol.-%	0.003	(Vol.-%) ²
Lack of fit	u _{lof}	0.058	Vol.-%	0.003	(Vol.-%) ²
Zero drift from field test	u _{d,z}	0.092	Vol.-%	0.008	(Vol.-%) ²
Span drift from field test	u _{d,s}	-0.098	Vol.-%	0.010	(Vol.-%) ²
Influence of ambient temperature at span	u _t	0.015	Vol.-%	0.000	(Vol.-%) ²
Influence of supply voltage	u _v	0.026	Vol.-%	0.001	(Vol.-%) ²
Cross-sensitivity (interference)	u _i	0.000	Vol.-%	0.000	(Vol.-%) ²
Influence of sample gas flow	u _p	-0.058	Vol.-%	0.003	(Vol.-%) ²
Uncertainty of reference material at 70% of certification range	u _{rm}	0.202	Vol.-%	0.041	(Vol.-%) ²

* The larger value is used :

"Repeatability standard deviation at set point" or

"Standard deviation from paired measurements under field conditions"

Combined standard uncertainty (u_c)

$$u_c = \sqrt{\sum (u_{max,j})^2} \quad 0.26 \text{ Vol.-%}$$

Total expanded uncertainty

$$U = u_c * k = u_c * 1.96 \quad 0.52 \text{ Vol.-%}$$

Relative total expanded uncertainty

U in % of the range 25 Vol.-% **2.1**

Requirement of 2010/75/EU

U in % of the range 25 Vol.-% **10.0 ****

Requirement of EN 15267-3

U in % of the range 25 Vol.-% **7.5**

** EU Directive 2010/75/EU does not define requirements for this component.

A value of 10.0% was used instead.

Calculation of overall uncertainty according to EN 14181 and EN 15267-3

Measuring system

Manufacturer	Fuji Electric
AMS designation	ZPA-CEMS
Serial number of units under test	N4C13450+N4E0757 / N4C13460+N4E0758
Measuring principle	ZrO2

Test report

Test laboratory	936/21239789/A
Date of report	TÜV Rheinland
	2018-09-21

Measured component

Certification range	O ₂	0 - 25 Vol.-%
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Evaluation of the cross-sensitivity (CS)

(system with largest CS)

Sum of positive CS at zero point	0.00 Vol.-%
Sum of negative CS at zero point	0.00 Vol.-%
Sum of positive CS at span point	0.24 Vol.-%
Sum of negative CS at span point	0.00 Vol.-%
Maximum sum of cross-sensitivities	0.24 Vol.-%
Uncertainty of cross-sensitivity	u _i 0.139 Vol.-%

Calculation of the combined standard uncertainty

Tested parameter

				u ²
Standard deviation from paired measurements under field conditions *	u _D	0.034 Vol.-%		0.001 (Vol.-%) ²
Lack of fit	u _{lof}	0.058 Vol.-%		0.003 (Vol.-%) ²
Zero drift from field test	u _{d,z}	0.017 Vol.-%		0.000 (Vol.-%) ²
Span drift from field test	u _{d,s}	0.115 Vol.-%		0.013 (Vol.-%) ²
Influence of ambient temperature at span	u _t	0.046 Vol.-%		0.002 (Vol.-%) ²
Influence of supply voltage	u _v	0.010 Vol.-%		0.000 (Vol.-%) ²
Cross-sensitivity (interference)	u _i	0.139 Vol.-%		0.019 (Vol.-%) ²
Influence of sample gas flow	u _p	0.057 Vol.-%		0.003 (Vol.-%) ²
Uncertainty of reference material at 70% of certification range	u _{rm}	0.202 Vol.-%		0.041 (Vol.-%) ²

* The larger value is used :
"Repeatability standard deviation at set point" or
"Standard deviation from paired measurements under field conditions"

Combined standard uncertainty (u _c)	$u_c = \sqrt{\sum (u_{max,j})^2}$	0.29 Vol.-%
Total expanded uncertainty	$U = u_c * k = u_c * 1.96$	0.57 Vol.-%

Relative total expanded uncertainty

Requirement of 2010/75/EU	U in % of the range 25 Vol.-%	2.3
Requirement of EN 15267-3	U in % of the range 25 Vol.-%	10.0 **
	U in % of the range 25 Vol.-%	7.5

** EU Directive 2010/75/EU does not define requirements for this component.
A value of 10.0% was used instead.