PRODUCT CONFORMITY CERTIFICATE

This is to certify that the

AccuFlo QAL

Manufactured by:

S.K.I Schlegel & Kremer Industrieautomation GmbH
Hanns-Martin-Schleyer-Straße 22
41199 Mönchengladbach
Germany

Has been assessed by Sira Certification Service
And for the conditions stated on this certificate complies with:

MCERTS Performance Standards for Continuous Emission Monitoring Systems, Version 3.5 dated June 2016
EN15267-3:2007,
& QAL 1 as defined in EN 14181: 2004

Certification Range :

Exhaust gas velocity 2 to 20 m/s

Project No.:	16A29201 & 70176771
Certificate No:	Sira MC120218/01
Initial Certification:	18 December 2012
This Certificate issued:	29 March 2018
Renewal Date:	17 December 2022

Joe Prince MSc, MInst MC
Certification Manager

MCERTS is operated on behalf of the Environment Agency by

Sira Certification Service
Unit 6, Hawarden Industrial Park
Hawarden, Deeside, CH5 3US
Tel: +44 (0)1244 670 900

Form 1335
Issue 3

Approved Site Application

Any potential user should ensure, in consultation with the manufacturer, that the monitoring system is suitable for the intended application. For general guidance on monitoring techniques refer to the Environment Agency Monitoring Technical Guidance Notes available at www.mcerts.net

The field test was carried out in the exhaust gas of waste incineration plant using two full, identical instruments.

Basis of Certification

This certification is based on the following Test Report(s) and on Sira's assessment and ongoing surveillance of the product and the manufacturing process:

TUV Rheinland Report Number: 93621219344/A dated 08/10/12

Product Certified

The flow measurement system AccuFlo QAL consists of the following parts:

- SDF 22/32/50 probe shaft
- Transducer (Siemens SITRANS P, DS III or S.K.I. AccuFlo-P, DS III)
- Evaluation electronics (µFLOW 100LSE).

This certificate applies to all instruments fitted with software version LSE-QAL-2.10 (serial number 3680 (µFLOW 100LSE) N1-C329-9024037 (SITRANS P) 12048607 (probe tube) onwards).

Certified Performance

The instrument was evaluated for use under the following conditions:

Ambient Temperature Range: -20°C to +50°C
Instrument IP rating: IP65

Test	Results expressed as % of the certification range				Other results	MCERTS specification
	<0.5	<1	<2	<5		
Response time					10s	<60s
Repeatability standard deviation at zero point	0.1					<2.0%
Repeatability standard deviation at reference point	0.1					<2.0%
Lack-of-fit						
0 to 18 m/s		0.7				<3.0%
0 to 36 m/s	0.3					<3.0%
0 to 54 m/s	0.2					<3.0%
Influence of ambient temperature zero point (-20°C to +50°C)	0.3					<5.0%
Influence of ambient temperature reference point (-20°C to +50°C)			1.0			<5.0%
Influence of voltage variations (190V to 250V)	0.2					<2.0%
Measurement uncertainty					Guidance - at least 25% below max permissible uncertainty 3.2%	<15%

Certificate No : Sira MC120218/01
This Certificate issued : 29 March 2018

Test	Results expressed as % of the certification range				Other results	MCERTS specification
	<0.5	<1	<2	<5		
Calibration function (field)					Note 1 >0.90	>0.90
Response time (field)					10s	<60s
Maintenance interval					Note 2 4 Weeks	>8 days
Change in zero point over maintenance interval	0.3					<2.0%
Change in reference point over maintenance interval		0.7				<4.0%
Availability					99.7%	>95%
Reproducibility				2.7		<3.3%

Note 1: Calibration function calculated in accordance with prEN 16911-2

Note 2: Monthly maintenance: Zero and reference point control. Regular checks: Check the electrical connections and cables / glands for leaks. For new installations: Depending on the dust load of the exhaust gas, ensure that the holes located in the dynamic pressure probe do not clog. Shorter cleaning intervals may be required. Always follow the manufacturer guidelines.

Description

The AccuFlo QAL is an in-situ differential pressure based flow measurement device. It consists of an SDF-sensor, a differential pressure transmitter and an evaluation unit. It can be delivered in different designs (such as direct and separate mounting of the differential pressure transmitter).

Depending on the chosen sensor material the instrument can be used to monitor aggressive and high temperature flue gases.

It is available as part stream measurement, as one cross duct measuring path and as two cross duct measuring path version. Therefore it offers an optimal solution for all measuring modes described in chapter 8.3 of the EN ISO 16911-2.

General Notes

1. This certificate is based upon the equipment tested. The Manufacturer is responsible for ensuring that on-going production complies with the standard(s) and performance criteria defined in this Certificate. 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 system shall be subject to regular surveillance according to 'Regulations Applicable to the Holders of Sira Certificates'. The design of the product certified is defined in the Sira Design Schedule for certificate No. Sira MC120218/01

2. If certified product is found not to comply, Sira Certification Service should be notified immediately at the address shown on this certificate.

3. The Certification Marks that can be applied to the product or used in publicity material are defined in 'Regulations Applicable to the Holders of Sira Certificates'.

4. This document remains the property of Sira and shall be returned when requested by the company.