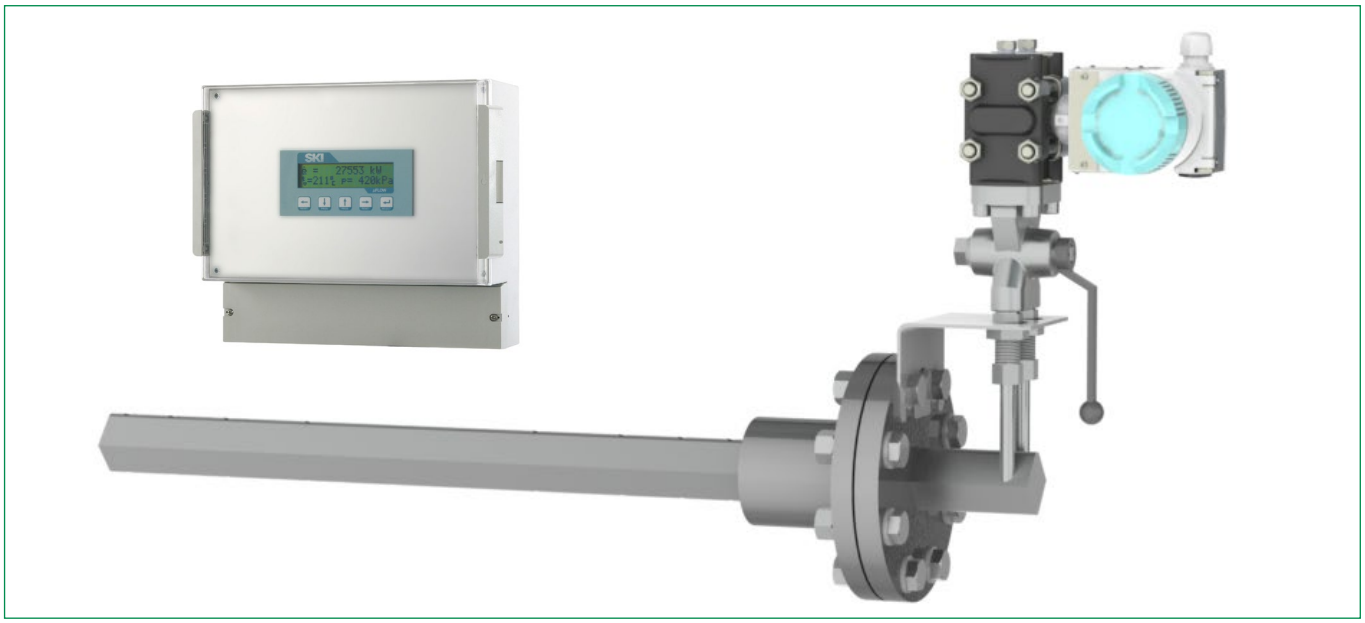
KOMPETENTE MESSTECHNIK

Future-proof!
TÜV audited
according to
EN16911

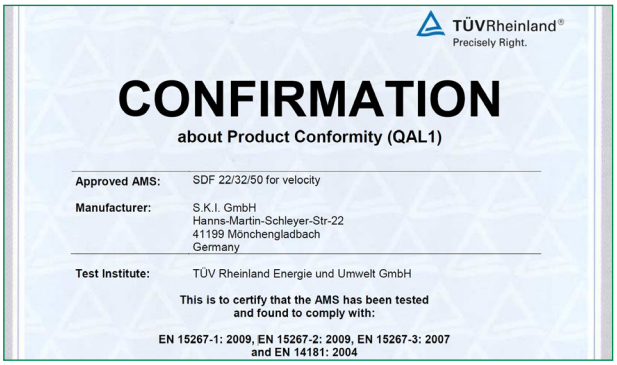
AccuFlo®QAL

Certified emission measurement

AccuFlo®QAL - Futute-proof emission measurement



Protect the environment



TÜVRheinland®
Precisely Right.

CONFIRMATION

about Product Conformity (QAL1)

Approved AMS:	SDF 22/32/50 for velocity
Manufacturer:	S.K.I. GmbH Hanns-Martin-Schleyer-Str-22 41199 Mönchengladbach Germany
Test Institute:	TÜV Rheinland Energie und Umwelt 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: 2004

sira CERTIFICATION · CSA Group · MCERTS · Environment Agency

PRODUCT CONFORMITY CERTIFICATE

This is to certify that the

AccuFlo QAL

Manufactured by:

S.K.I Schlegel & Kremer Industrieautomation GmbH

AccuFlo®QAL

Our AccuFlo®QAL is an automatic measuring system certified according to the QAL 1 for monitoring emissions.

The AccuFlo®QAL works on the principle of differential pressure-flow measurement and consists of a SDF-sensor, AccuMu transmitter and the µFlow electronic evaluation system. In addition the AccuFlo®QAL offers options for measuring fluctuations in density, temperature protective housing and air purging.

Simple to handle

The AccuFlo®QAL is easy to install and to handle. That means for you a fast and simple implementation as well as an almost maintenance-free system.



Technical Highlights

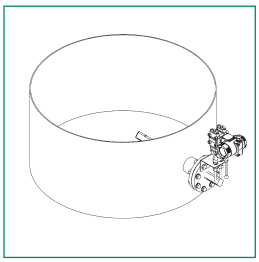
Measuring principle	Differential pressure
Velocity	2-20, 2-40, 2-60m/s *
Diameter	> 100mm
Medium temperature	to 800°C Higher temperature on request
ambiente temperature	-20°C to 50°C
Voltage	115/230AC Optional 24DC
Interfaces	• Analog output (optional one additional analog output) • 3 relay: purging relay, service relay, fail relay • Pulse ouput if the velocity falls below a determined minimum value
Material	1.4571, Hastelloy Other materials on request
Evaluation electronics	Panel mounting Optional connection housing

Certfication details

Measurement system	SDF 22/32/50
Certification	QAL1: Federal Environmental Agency, TÜV Rheinland MCerts: SIRA
Tested standards	DIN EN 14181 DIN EN 15267-1-3 DIN EN 15259 DIN EN 16911-2
TÜV report	936/21219344/A
TÜV interim certificate	Since 21.12.2012
MCERTS Certifikate	SIRA MC120218/00

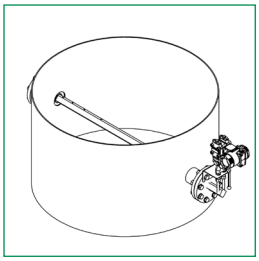
Make the right choice

The DIN EN 16911 2 article 8.3 regulates the relation between the flow profile shape, caused by the existing pipe isometrics, and the measuring system to be used. The AccuFlo®-QAL provides the right solution for any requirement:



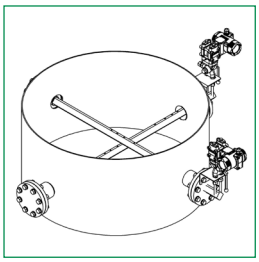
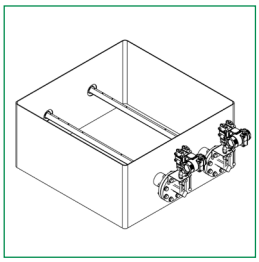
Part stream flow sensor

Exhaust gas ducts with long inlet and outlet lengths have a symmetrical flow profile. In this case the right choice for a measuring system is the SDF-part stream flow sensor with limited path length, also in rectangular ducts.



1 Cross-Duct-measuring path

Exhaust gas ducts with shorter inlet and outlet lengths have a non-symmetric flow profile. SDF-sensors are used as measuring system. In the case of a strong non-symmetric flow profile the measurement must be taken along the axis with the largest asymmetry. In rectangular ducts identical SDF-sensors are used.

2 Cross-Duct-measuring path

In exhaust gas ducts with very short inlet and outlet lengths and the resulting very non-symmetric flow profile with twist formation, installation of two SDF-sensors is required.

*Measuring ranges according to the TÜV and MCERTS certificates

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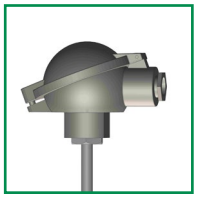
AccuFlo®QAL Options



Temperature

Due to typically high temperature variations of exhaust gas in general and the resulting density changes, a precise temperature measurement is advisable. Our temperature measurement is integrated in the AccuFlo®QAL and measures reliably the temperature in the exhaust gas duct.

Pressure

Pressure variations in exhaust gas ducts lead to changes in the gas density. For precise pressure measuring we recommend our pressure measuring transmitter AccuP which can be easily integrated in the AccuFlo®QAL.

$$V = \sqrt{\frac{\Delta p}{\rho}} * \frac{k*D}{25}$$

Volumetric flow calculation

Based on the measuring of pressure and temperature our external electronic evaluation unit µFlow can be upgrated to include volumetric flow calculation. Alternatively the volumetric flow can also be calculated with a suitable emission calculator using our temperature and pressure measurement system

Protective Housing

Our protective housing SK-100 including the arctic coating and heating optimizes your volumetric flow measuring also at extremely low temperatures. .

Air flushing device

At a dust concentration of more than 150mg/Nm³ we recommend using our LSE-air purging device. It cleans SDF-sensors before they get blocked by dust. Safe and reliable. Following a very simple principle – and without any magnetic valves.

S.K.I. Schlegel & Kremer Industrieautomation GmbH

Hanns-Martin-Schleyer Str. 22
D-41212 Mönchengladbach

Tel: +49 (0)2166 62317-0
Fax: +49 (0)2166 61168-1

Web: www.ski-gmbh.com
E-Mail: info@ski-gmbh.com