



AccuFlo[®] QAL

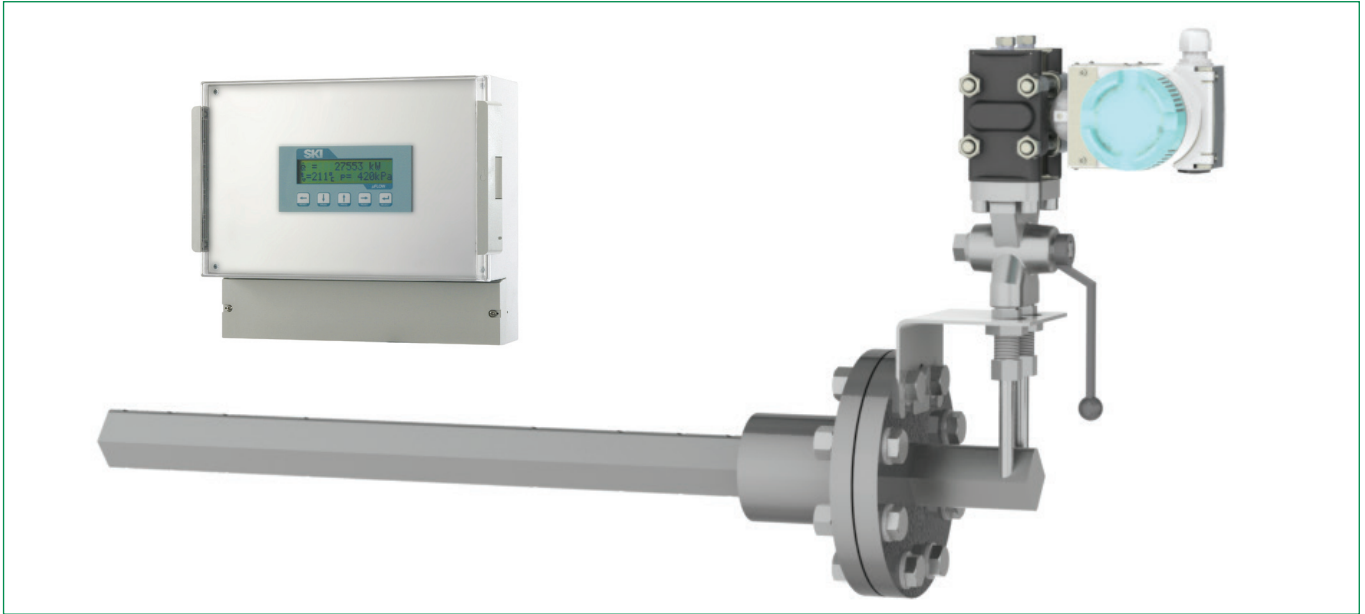
Certified fluegas volume
flow measurement



Suitability Tested
EN 15267
QAL1 Certified
Regular
Surveillance
www.tuv.com
ID: 0000038500



Future-proof!
TÜV audited
also according to
EN16911



■ Protect the environment



■ AccuFlo®QAL

Our AccuFlo®QAL is an automatic measuring system certified according to the QAL 1 for fluegas volume flow measurement.

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

■ 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

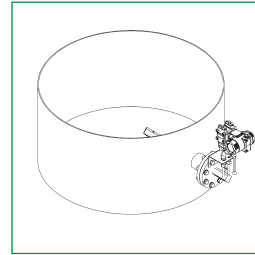
Measuring principle	Differential pressure
Velocity	2-20, 2-40, 2-60m/s *
Diameter	> 100mm
Medium temperature	to 800°C Higher temperature on request
ambiente temperature	-20°C to 50°C
Voltage	115/230 V AC Optional 24 V DC
Interfaces	<ul style="list-style-type: none"> Analog output (optional one additional analog output) 3 relay: purging relay, service relay, fail relay Pulse output if the velocity falls below a determined minimum value
Material	1.4571, Hastelloy Other materials on request
Evaluation electronics	Panel mounting Optional connection housing

■ Certification 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
QAL1-certificate	0000038500
MCERTS Certificate	SIRA MC120218/00

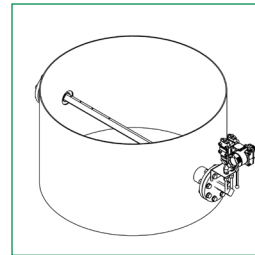
■ Make the right choice

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:



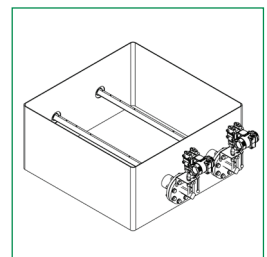
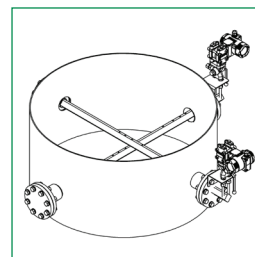
Part stream flow sensor

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.

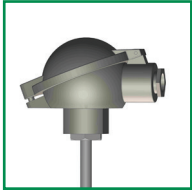


2 Cross-Duct-measuring path

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.



■ 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.

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

■ Volumetric flow calculation

Based on the measuring of pressure and temperature our external electronic evaluation unit µFlow can be upgraded 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 purging 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.

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