

Deutsche Akkreditierungsstelle GmbH

Scope of Accreditation D-K-15070-01-05 to DIN EN ISO/IEC 17025:2005

Period of validity: 21.10.2011 to 20.10.2016

Certificate bearer:

testo industrial services GmbH
Lenzkirch Calibration Laboratory
Testo-Straße 1, 79853 Lenzkirch

Laboratory chief: Dipl.-Phys. Eugen Sander
Section leaders: Martin Förderer
Tim Tröndle

Accredited calibration laboratory since: 08.03.1994

Areas of calibration:

Flow measurements:
-Velocity of gases
- Gas flow rate

Permanent Laboratory

Parameter / Equipment	Range	Measurement Conditions	Smallest Measurement Uncertainty ¹⁾	Remarks
Volume Flow Q_V	15 m ³ /h to 2000 m ³ /h	Atmospheric Air / Test Stand with Measuring Diaphragm	1.5 % · Q_V , but not smaller than 0.3 m ³ /h	Average Air Density ρ of Location is $\rho = 1 \text{ kg/m}^3$
Mass Flow Q_m	15 kg/h to 2000 kg/h		1.5 % · Q_m , but not smaller than 0.3 kg/h	
Velocity v of Gas Anemometer	0.1 m/s to 50 m/s	With Laser-Doppler-Anemometer Calibrated Open Jet	0.5 % · v , but not smaller than 0.01 m/s	Measured in a Turbulent Open Jet at $Re = 2300$ ($v = 0.1 \text{ m/s}$) to $Re = 1170000$ ($v = 50 \text{ m/s}$) $Re = \text{Reynolds Number}$

¹⁾ The smallest measurement uncertainties are stated according to DAkkS-DKD-3 (EA-4/02). These are expanded uncertainties with a 95% level of confidence and, unless otherwise stated, using a coverage factor of $k = 2$. Uncertainties that appear without units are relative to the measured value unless otherwise stated.