

Deutsche Akkreditierungsstelle GmbH

Annex to the Accreditation Certificate D-K-11349-01-00 according to ISO/IEC 17025:2005

Period of validity: 2016-12-13 to 2018-08-01

Date of issue: 2016-12-13

Holder of certificate:

ift Rosenheim GmbH
Theodor-Gietl-Straße 7-9, D-83026 Rosenheim, Germany

Head: Christine Lux
Deputy: Stephan Lechner
Patrick Weinzierl

Accredited since: 2013-08-02

Calibrations in the fields:

Mechanical quantities

- Pressure ^{a)}

Fluid quantities

- Gas flow rate ^{a)}

^{a)} also on-site calibration

Abbreviations used: see last page

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Permanent Laboratory

Measured quantity / Calibration item	Range	Measurement conditions / procedure	Best measurement capability ¹⁾	Remarks
Pressure Gauge pressure p_e	-1 bar to < 0 bar	DIN EN 837:1997 DKD-R 6-1:2014 EURAMET cg-17 version 2.0	0.015 bar	Pressure medium: Air
	0 mbar to 1 mbar		2 μ bar	
	> 1 mbar to 10 mbar		10 μ bar	
	> 10 mbar to 20 mbar		20 μ bar	
	> 20 mbar to 0.10 bar		40 μ bar	
	> 0.10 bar to 0.2 bar		80 μ bar	
	> 0.2 bar to 10 bar		0,01 bar	
Absolute pressure p_{abs}	30 mbar to 2000 mbar		1 mbar	
Fluid quantities Volume flow rate of air dV/dt	0.1 m ³ /h to 2 m ³ /h	ift in-house method: MA-KA_-2495: version 02	0.7 %	Calibration medium: Air under atmospheric conditions
	2 m ³ /h to 1000 m ³ /h		0.7 %	

On-site calibration

Measured quantity / Calibration item	Range	Measurement conditions / procedure	Best measurement capability ¹⁾	Remarks
Pressure Gauge pressure p_e	-1 bar to < 0 bar	DIN EN 837:1997 DKD-R 6-1:2014 EURAMET cg-17 version 2.0	0.018 bar	Pressure medium: Air
	0 mbar to 1 mbar		3 μ bar	
	> 1 mbar to 10 mbar		12 μ bar	
	> 10 mbar to 20 mbar		24 μ bar	
	> 20 mbar to 0.10 bar		48 μ bar	
	> 0.10 bar to 0.2 bar		96 μ bar	
	> 0.2 bar to 10 bar		0.012 bar	
Absolute pressure p_{abs}	30 mbar to 2000 mbar		1.2 mbar	
Fluid quantities Volume flow rate of air dV/dt	0.4 m ³ /h to 2 m ³ /h	ift in-house method: MA-KA_-2495: Version 02	1.0 %	Calibration medium: Air under atmospheric conditions
	2 m ³ /h to 1000 m ³ /h		0.7 %	

Abbreviations used:

DKD-R Calibration guideline issued by "Deutscher Kalibrierdienst" (DKD)
EURAMET European Association of National Metrology Institutes

¹⁾ The best measurement capabilities are stated according to EA-4/02. These are expanded uncertainties of measurement with a coverage probability of 95% and have a coverage factor of $k = 2$ unless stated otherwise. Uncertainties without unit are relative uncertainties referring to the measurement value unless stated otherwise.