

Deutsche Akkreditierungsstelle GmbH

Scope of Accreditation D-K-15070-01-03 to DIN EN
ISO/IEC 17025:2005

Period of validity: 30.01.2018 to 27.10.2021

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Certificate bearer:

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Accredited calibration laboratory since: 11.12.2009

Scope of Accreditation D-K-15070-01-03

Areas of calibration:

Electrical measurands

DC and low frequency measurands

- DC voltage
- AC voltage
- Direct current
- Alternating current
- Electrical power
- DC resistance
- Capacitance

Time and frequency

- Time interval
- Frequency

High frequency measurands

- Oscilloscope measurands
- Rise time

Dimensional measurands

Length

- Length-measuring instruments *)
- Diameter
- Thread

Mechanical measurands

- Pressure *)

Thermodynamic measurands

Temperature measurands

- Resistance thermometer *)
- Thermocouple *)
- Temperature indicator and -simulators *)

Humidity chambers

- Measuring instruments for relative humidity
- Measuring instruments for absolute humidity

Within the measurement types/calibration items marked with *) , the calibration laboratory is permitted to apply standards/ calibration directives listed here with different output levels without requiring prior information and approval from DAkkS.

The calibration laboratory has an up-to-date list of all standards/calibrations guidelines in the flexible accreditation area.

Abbreviations used: see last page

The German original version "Anlage zur Akkreditierungsurkunde D-K-15070-01-03 nach DIN EN ISO/IEC 17025:2005" is valid.

Permanent laboratory

Measurand quantity / Calibration item	Range	Measurement conditions/Procedure	Smallest Measurement Uncertainty 1)	Remarks
DC voltage Measuring instruments	0 V		0.1 μ V	U = adjusted value
	0.01 V to 2.2 V		$7 \cdot 10^{-6} U + 1 \mu$ V	Fluke 5700A
	> 2.2 V to 11 V		$9 \cdot 10^{-6} U$	
	> 11 V to 22 V		$8 \cdot 10^{-6} U$	
Sources	> 22 V to 1000 V		$12 \cdot 10^{-6} U$	
	0 V		0.1 μ V	U = measured value
	1 mV to 100 mV		$8 \cdot 10^{-6} U + 1 \mu$ V	HP 3458A
	> 100 mV to 1 V		$11 \cdot 10^{-6} U$	
Direct current Measuring instruments	> 1 V to 10 V		$9 \cdot 10^{-6} U$	
	> 10 V to 100 V		$13 \cdot 10^{-6} U$	
	> 100 V to 1000 V		$16 \cdot 10^{-6} U$	
	0 A		0.2 nA	I = adjusted value
	10 μ A to 220 μ A		$50 \cdot 10^{-6} I + 8$ nA	Fluke 5700A
	> 220 μ A to 22 mA		$87 \cdot 10^{-6} I$	
	> 22 mA to 220 mA		$89 \cdot 10^{-6} I$	
	> 220 mA to 2.2 A		$0.2 \cdot 10^{-3} I$	
	> 2.2 A to 11 A		$0.55 \cdot 10^{-3} I$	5520A/5522A
Direct current Sources	> 11 A to 20 A		$1.2 \cdot 10^{-3} I$	
	> 20 A to 200 A		$1 \cdot 10^{-3} I$	Voltage drop with standard resistor
	0 A		0.2 nA	I = measured value
	0.1 μ A to 1 μ A		$0.4 \cdot 10^{-3} I$	HP 3458A
	> 1 μ A to 10 μ A		$0.12 \cdot 10^{-3} I$	
	> 10 μ A to 100 μ A		$0.1 \cdot 10^{-3} I$	
Current clamps	> 100 μ A to 10 mA		$70 \cdot 10^{-6} I$	
	> 10 mA to 100 mA		$85 \cdot 10^{-6} I$	
	> 100 mA to 1 A		$0.2 \cdot 10^{-3} I$	
	> 1 A to 10 A		$0.5 \cdot 10^{-3} I$	Voltage drop with standard resistor
	> 10 A to 200 A		$1.0 \cdot 10^{-3} I$	
	1 mA to 2.2 A		$1 \cdot 10^{-3} I$	
> 2.2 A to 20 A		$2 \cdot 10^{-3} I$		
> 20 A to 1000 A		$3 \cdot 10^{-3} I$		

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 $k=2$. Uncertainties that appear without units are relative to the measured value unless otherwise stated.

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Measurand quantity / Calibration item	Range	Measurement conditions/ Procedure	Smallest Measurement Uncertainty 1)	Remarks
DC resistance Measuring instruments	0 Ω 1 Ω; 1.9 Ω 10 Ω 19 Ω 100 Ω; 190 Ω 1 kΩ; 1.9 kΩ 10 kΩ; 19 kΩ 100 kΩ; 190 kΩ 1 MΩ 1.9 MΩ 10 MΩ 19 MΩ 100 MΩ		50 μΩ $95 \cdot 10^{-6} R$ $28 \cdot 10^{-6} R$ $27 \cdot 10^{-6} R$ $17 \cdot 10^{-6} R$ $13 \cdot 10^{-6} R$ $12 \cdot 10^{-6} R$ $14 \cdot 10^{-6} R$ $20 \cdot 10^{-6} R$ $21 \cdot 10^{-6} R$ $40 \cdot 10^{-6} R$ $48 \cdot 10^{-6} R$ $0.11 \cdot 10^{-3} R$	R = adjusted value Fluke 5700A
Resistance	0 Ω 1 Ω to 10 Ω > 10 Ω to 100 Ω > 100 Ω to 100 kΩ > 100 kΩ to 1 MΩ > 1 MΩ to 10 MΩ > 10 MΩ to 100 MΩ > 100 MΩ to 1 GΩ		0.1 mΩ $16 \cdot 10^{-6} R + 50 \mu\Omega$ $12 \cdot 10^{-6} R + 0,5 \text{ m}\Omega$ $15 \cdot 10^{-6} R$ $35 \cdot 10^{-6} R$ $0.15 \cdot 10^{-3} R$ $0.6 \cdot 10^{-3} R$ $5 \cdot 10^{-3} R$	R = measured value HP 3458A
DC resistance (Range) Measuring instruments	1 Ω to < 11 Ω 11 Ω to < 33 Ω 33 Ω to < 110 Ω 110 Ω to < 110 kΩ 110 kΩ to < 330 kΩ 330 kΩ to < 1,1 MΩ 1,1 MΩ to < 3.3 MΩ 3.3 MΩ to < 11 MΩ 11 MΩ to < 33 MΩ 33 MΩ to < 110 MΩ 110 MΩ to < 330 MΩ 330 MΩ to < 1.1 GΩ		$0.12 \cdot 10^{-3} R$ $33 \cdot 10^{-6} R$ $29 \cdot 10^{-6} R$ $28 \cdot 10^{-6} R$ $32 \cdot 10^{-6} R$ $33 \cdot 10^{-6} R$ $62 \cdot 10^{-6} R$ $0.13 \cdot 10^{-3} R$ $0.25 \cdot 10^{-3} R$ $0.5 \cdot 10^{-3} R$ $3 \cdot 10^{-3} R$ $15 \cdot 10^{-3} R$	R = adjusted value Fluke 5520A /5522A

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Measurand quantity / Calibration item	Range	Measurement conditions/ Procedure	Smallest Measurement Uncertainty 1)	Remarks
AC voltage Measuring instruments	0.01 V to 0.022 V	10 Hz to 40 Hz > 40 Hz to 20 kHz > 20 kHz to 50 kHz > 50 kHz to 100 kHz > 100 kHz to 300 kHz > 300 kHz to 500 kHz > 500 kHz to 1 MHz	$1.2 \cdot 10^{-3} U$ $0.7 \cdot 10^{-3} U$ $1.0 \cdot 10^{-3} U$ $1.8 \cdot 10^{-3} U$ $2.6 \cdot 10^{-3} U$ $4.7 \cdot 10^{-3} U$ $6.7 \cdot 10^{-3} U$	U = adjusted value Fluke 5700A
	> 0.022 V to 0.22 V	10 Hz to 40 Hz > 40 Hz to 20 kHz > 20 kHz to 50 kHz > 50 kHz to 100 kHz > 100 kHz to 300 kHz > 300 kHz to 500 kHz > 500 kHz to 1 MHz	$0.75 \cdot 10^{-3} U$ $0.21 \cdot 10^{-3} U$ $0.45 \cdot 10^{-3} U$ $1.3 \cdot 10^{-3} U$ $1.5 \cdot 10^{-3} U$ $2.3 \cdot 10^{-3} U$ $4.7 \cdot 10^{-3} U$	
	> 0.22 V to 2.2 V	10 Hz to 40 Hz > 40 Hz to 20 kHz > 20 kHz to 50 kHz > 50 kHz to 100 kHz > 100 kHz to 300 kHz > 300 kHz to 500 kHz > 500 kHz to 1 MHz	$1.0 \cdot 10^{-3} U$ $0.12 \cdot 10^{-3} U$ $0.22 \cdot 10^{-3} U$ $0.7 \cdot 10^{-3} U$ $1.2 \cdot 10^{-3} U$ $3.1 \cdot 10^{-3} U$ $7.4 \cdot 10^{-3} U$	
	> 2.2 V to 22 V	10 Hz to 40 Hz > 40 Hz to 20 kHz > 20 kHz to 50 kHz > 50 kHz to 100 kHz > 100 kHz to 300 kHz > 300 kHz to 500 kHz > 500 kHz to 1 MHz	$1.0 \cdot 10^{-3} U$ $0.12 \cdot 10^{-3} U$ $0.22 \cdot 10^{-3} U$ $0.45 \cdot 10^{-3} U$ $1.3 \cdot 10^{-3} U$ $3.6 \cdot 10^{-3} U$ $7.4 \cdot 10^{-3} U$	
	> 22 V to 220 V	10 Hz to 40 Hz > 40 Hz to 20 kHz > 20 kHz to 50 kHz > 50 kHz to 100 kHz	$1 \cdot 10^{-3} U$ $0.13 \cdot 10^{-3} U$ $0.42 \cdot 10^{-3} U$ $1.0 \cdot 10^{-3} U$	
	> 220 V to 1000 V	> 50 Hz to 1 kHz	$0.12 \cdot 10^{-3} U$	

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Measurand quantity / Calibration item	Range	Measurement conditions/ Procedure	Smallest Measurement Uncertainty 1)	Remarks
AC voltage Sources	0.01 V to 10 V	40 Hz to 1 kHz > 1 kHz to 20 kHz > 20 kHz to 50 kHz	$0.27 \cdot 10^{-3} U$ $0.34 \cdot 10^{-3} U$ $0.55 \cdot 10^{-3} U$	U = measured value HP 3458A
	> 0.1 V to 10 V	40 Hz to 1 kHz > 1 kHz to 20 kHz > 20 kHz to 50 kHz	$0.27 \cdot 10^{-3} U$ $0.34 \cdot 10^{-3} U$ $0.5 \cdot 10^{-3} U$	
	> 10 V to 100 V	40 Hz to 1 kHz > 1 kHz to 20 kHz > 20 kHz to 50 kHz	$0.4 \cdot 10^{-3} U$ $0.4 \cdot 10^{-3} U$ $0.55 \cdot 10^{-3} U$	
	> 100 V to 700 V	40 Hz to 1 kHz	$0.55 \cdot 10^{-3} U$	
Measuring instruments	0.1 mA to 0.22 mA	10 Hz to 40 Hz > 40 Hz to 1 kHz > 1 kHz to 5 kHz > 5 kHz to 10 kHz	$1.1 \cdot 10^{-3} I$ $0.3 \cdot 10^{-3} I$ $1.2 \cdot 10^{-3} I$ $2.7 \cdot 10^{-3} I$	I = adjusted value Fluke 5700A
	> 0.22 mA to 220 mA	10 Hz to 40 Hz > 40 Hz to 1 kHz > 1 kHz to 5 kHz > 5 kHz to 10 kHz	$1.0 \cdot 10^{-3} I$ $0.4 \cdot 10^{-3} I$ $3.0 \cdot 10^{-3} I$ $6.4 \cdot 10^{-3} I$	
	> 220 mA to 2.2 A	20 Hz to 1 kHz > 1 kHz to 5 kHz > 5 kHz to 10 kHz	$1.1 \cdot 10^{-3} I$ $1.3 \cdot 10^{-3} I$ $10 \cdot 10^{-3} I$	
	> 2.2 A to 3 A	10 Hz to 45 Hz > 45 Hz to 1 kHz > 1 kHz to 5 kHz > 5 kHz to 10 kHz	$1.9 \cdot 10^{-3} I$ $0.7 \cdot 10^{-3} I$ $6.9 \cdot 10^{-3} I$ $29 \cdot 10^{-3} I$	I = adjusted value Fluke 5520A/5522A
	> 3 A to 11 A	45 Hz to 100 Hz > 100 Hz to 1 kHz > 1 kHz to 5 kHz	$1.3 \cdot 10^{-3} I$ $1.6 \cdot 10^{-3} I$ $30 \cdot 10^{-3} I$	
	> 11 A to 20.5 A	45 Hz to 100 Hz > 100 Hz to 1 kHz > 1 kHz to 5 kHz	$1.6 \cdot 10^{-3} I$ $1.9 \cdot 10^{-3} I$ $30 \cdot 10^{-3} I$	
Alternating current Sources	0.1 mA to 100 mA	20 Hz to 45 Hz > 45 Hz to 100 Hz > 100 Hz to 5 kHz	$3.5 \cdot 10^{-3} I$ $2.6 \cdot 10^{-3} I$ $2.3 \cdot 10^{-3} I$	I = measured value HP 3458A
	> 100 mA to 1 A	20 Hz to 45 Hz > 45 Hz to 100 Hz > 100 Hz to 5 kHz	$3.6 \cdot 10^{-3} I$ $2.8 \cdot 10^{-3} I$ $3.0 \cdot 10^{-3} I$	

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Measurand quantity / Calibration item	Range	Measurement conditions/ Procedure	Smallest Measurement Uncertainty 1)	Remarks
Alternating current Current clamp	1 mA to 2.2 A	40 Hz to 5 kHz	$2 \cdot 10^{-3} I$	I = measured value
	> 2.2 A to 20 A	40 Hz to 5 kHz	$3 \cdot 10^{-3} I$	
	> 20 A to 800 A	40 Hz to 65 Hz	$4 \cdot 10^{-3} I$	
AC active power Measuring instruments		33 mV to 1000 V 45 Hz to 65 Hz; $PF=1$		P = adjusted value Fluke 5520A/5522A PF : power factor ($\cos \varphi$) (φ Phase angle)
	109 μ W to < 11 kW	33 mA to < 11 A	$1.4 \cdot 10^{-3} P$	
	363 mW to 20 kW	11 A to 20 A	$2.0 \cdot 10^{-3} P$	
Capacitance Measuring instruments	190 pF to < 400 pF	10 Hz to 10 kHz	$4 \cdot 10^{-3} C + 8 \text{ pF}$	C = measured value 5520A / 5522A
	400 pF to < 1.1 nF	10 Hz to 10 kHz	$4.5 \cdot 10^{-3} C + 8 \text{ pF}$	
	1.1 nF to < 3.3 nF	10 Hz to 3 kHz	$4.0 \cdot 10^{-3} C + 8 \text{ pF}$	
	3.3 nF to < 11 nF	10 Hz to 1 kHz	$2.5 \cdot 10^{-3} C + 8 \text{ pF}$	
	11 nF to < 33 nF	10 Hz to 1 kHz	$2.5 \cdot 10^{-3} C + 80 \text{ pF}$	
	33 nF to < 110 nF	10 Hz to 1 kHz	$2.5 \cdot 10^{-3} C + 80 \text{ pF}$	
	110 nF to < 330 nF	10 Hz to 1 kHz	$4 \cdot 10^{-3} C$	
	330 nF to < 1.1 μ F	10 Hz to 600 Hz	$4.5 \cdot 10^{-3} C$	
	1.1 μ F to < 3.3 μ F	10 Hz to 300 Hz	$4.5 \cdot 10^{-3} C$	
	3.3 μ F to < 11 μ F	10 Hz to 150 Hz	$4.5 \cdot 10^{-3} C$	
	11 μ F to < 33 μ F	10 Hz to 120 Hz	$6.0 \cdot 10^{-3} C$	
	33 μ F to < 110 μ F	10 Hz to 80 Hz	$6.5 \cdot 10^{-3} C$	
	110 μ F to < 330 μ F	DC to 50 Hz	$6.0 \cdot 10^{-3} C$	
	330 μ F to < 1.1 mF	DC to 20 Hz	$6.0 \cdot 10^{-3} C$	
	1.1 mF to < 3.3 mF	DC to 6 Hz	$6.0 \cdot 10^{-3} C$	
3.3 mF to < 11 mF	DC to 2 Hz	$6.0 \cdot 10^{-3} C$		
11 mF to < 33 mF	DC to 0.6 Hz	$8.0 \cdot 10^{-3} C$		
33 mF to 110 mF	DC to 0.2 Hz	$11 \cdot 10^{-3} C$		
Frequency	1 mHz to 1 GHz		$2 \cdot 10^{-9} \cdot f + U_{Tf}$	f = actual measured value U_{Tf} = trigger uncertainty
Time interval	1 μ s to 1000 s		$2 \cdot 10^{-9} \cdot t + 2 \text{ ns}$	t = actual measured value

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Measurand quantity / Calibration item	Range	Measurement conditions/ Procedure	Smallest Measurement Uncertainty 1)	Remarks
Oscilloscope measurand	5 mV to 5 V	$R_i = 50 \Omega$	$3.5 \cdot 10^{-3} U + 35 \mu V$	Squarewave voltage
Vertical deflection	5 mV to 120 V	$R_i = 1 M\Omega$	$2.4 \cdot 10^{-3} U + 40 \mu V$	10 Hz to 10 kHz
Horizontal deflection	5 ns to 520 ms		$3 \cdot 10^{-6} t + 1 \text{ ns}$	t : actual rising time
	> 20 ms to 5 s		$30 \cdot 10^{-6} t + 1.2 \cdot 10^{-4} t^2$	
Rising time	600 ps to 10 ms	25 mV to 1V $R_i = 50 \Omega$	$40 \cdot 10^{-3} t_r + 7 \text{ ps}$	
Temperature indicators and -simulatoren *) Resistance thermometer	-200 °C to 850 °C	DAkkS-DKD-R 5-5:2010	0.03 K	Characteristic curve according to DIN EN 60751:2009
Precious metal thermometer	-200 °C to 1750 °C		0.1 K	Characteristic curve according to DIN EN 60584-1:2014
Non- precious metal thermometer	-200 °C to 1300 °C		0.05 K	
Pressure *) Absolute pressure p_{abs}	0.03 bar to 70 bar	DKD-R 6-1:2014	$0.40 \text{ mbar} + 1.5 \cdot 10^{-4} \cdot p_{abs}$	Pressure medium: Gas
Negative and positive pressure p_e	- 1 bar to 0,0 bar		$40 \mu\text{bar} + 1 \cdot 10^{-4} \cdot p_e$	
	0 mbar to 20 mbar		$3 \mu\text{bar} + 2.0 \cdot 10^{-4} \cdot p_e$	
	> 20 mbar to 200 mbar		$2.5 \mu\text{bar} + 3.0 \cdot 10^{-4} \cdot p_e$	
	> 0.2 bar to 0.5 bar		$35 \mu\text{bar} + 1.0 \cdot 10^{-4} \cdot p_e$	
	> 0.5 bar to 70 bar		$1 \text{ mbar} + 1.0 \cdot 10^{-4} \cdot p_e$	

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Measurand quantity / Calibration item	Range	Measurement conditions/ Procedure	Smallest Measurement Uncertainty 1)	Remarks
Length *) Cylindrical setting gauge Ring gauge, Diameter without form measuring Plug gauges, Diameter without form measuring Pin gauge, Diameter without form measuring	1 mm to 150 mm 1 mm to 150 mm 0.1 mm to 30 mm	DAkKS-DKD-R 4-3 Page 4.1:2010, Pt. 5.3.3, Pkt. 5.3.4 DAkKS-DKD-R 4-3 Page 4.2:2010, Option 5.3.3	$0.8 \mu\text{m} + 2 \cdot 10^{-6} \cdot l$ $0.8 \mu\text{m} + 2 \cdot 10^{-6} \cdot l$ $0.8 \mu\text{m} + 2 \cdot 10^{-6} \cdot l$	/=measured length
Thread Gauge (single and multi-start cylindrical Outer and Inner Threads with straight-sided symmetrical profile) Thread pin: simple pitch diameter Thread ring: simple pitch diameter	1.4 mm to 200 mm Nominal pitch: 0.3 mm to 6 mm 3 mm to 200 mm Nominal pitch: 0.5 mm to 6 mm	DAkKS-DKD-R 4-3 Page 4.8:2010, Option 1 DAkKS-DKD-R 4-3 Page 4.9:2010, Option 1	$3 \mu\text{m} + 10 \cdot 10^{-6} \cdot l$ $3 \mu\text{m} + 10 \cdot 10^{-6} \cdot l$	
Caliper for Outer and Inner Depth Measurements Depth gauge Height gauge	0 mm to 500 mm	DAkKS-DKD-R 4-3 Page 9.1:2010 DAkKS-DKD-R 4-3 Page 9.2:2010 DAkKS-DKD-R 4-3 Page 9.3:2010	$30 \mu\text{m} + 30 \cdot 10^{-6} \cdot l$	
Micrometers	0 mm to 150 mm	DAkKS-DKD-R 4-3 Page 10.1:2010	$3 \mu\text{m} + 10 \cdot 10^{-6} \cdot l$	
Dial gauge	to 100 mm	DAkKS-DKD-R 4-3 Page 11.1:2010	$3 \mu\text{m} + 10 \cdot 10^{-6} \cdot l$	
Fine pointer	to 3 mm	DAkKS-DKD-R 4-3 Page 11.2:2010	0.6 μm	
Lever gauges	to 1.6 mm	DAkKS-DKD-R 4-3 Page 11.3:2010	1.0 μm	
2-Point Internal Micrometers	13 mm to 300 mm > 300 mm to 500 mm	DAkKS-DKD-R 4-3 Page 10.7:2010	$3 \mu\text{m} + 10 \cdot 10^{-6} \cdot l$ $5 \mu\text{m} + 10 \cdot 10^{-6} \cdot l$	

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Measurand quantity / Calibration item	Range	Measurement conditions/ Procedure	Smallest Measurement Uncertainty 1)	Remarks
Temperature Resistances thermometer Electrical thermometer with resistance sensor with indication/ digital output *)	0.00 °C	DAkkS-DKD-R 5-1:2010 Ice point	10 mK	Compared to standard resistance thermometers
	-80 °C to 0 °C	DAkkS-DKD R 5-1: 2010 Calibration bath	15 mK	
	> 0 °C to 100 °C		20 mK	
	> 100 °C to 200 °C		25 mK	
	> 200 °C to 500 °C	DAkkS-DKD R 5-1: 2010 High temperature furnace	300 mK	
Precious-metal thermocouples *)	> 500 °C to 1000 °C	DAkkS-DKD R 5-3: 2010 High temperature furnace	2.0 K	Compared to standard thermocouples
Non-precious-metal thermocouples with indicator *)	-80 °C to 200 °C	DAkkS-DKD R 5-3: 2010 Calibration bath	0.2 K	
	> 200 °C to 1000 °C	DAkkS-DKD R 5-3: 2010 High temperature furnace	2.0 K	
Temperature gauge, Data logger	-30 °C to 50 °C	Temperature chamber	0.4 K	Compared to standard resistance thermometers
	> 50 °C to 80 °C		0.6 K	
	80 °C to 120 °C		0.9 K	
Relative humidity Hygrometer, Data logger, Transducers	10 % to 39.9 %	2-Pressure / 1-Temperature Generator with Flow-Box Temperature Range: 0°C to < 19.9°C	0.3 %	Measuring range and uncertainty expressed in relative humidity
	40 % to 79.9 %		0.6 %	
	80 % to 95 %		0.7 %	
	10 % to 39.9 %	2-Pressure / 1-Temperature Generator with Flow-Box Temperature Range: 20°C bis 70°C	0.3 %	
	40 % to 79.9 %		0.5 %	
	80 % to 95 %		0.6 %	

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Measurand quantity / Calibration item	Range	Measurement conditions/ Procedure	Smallest Measurement Uncertainty 1)	Remarks
Dewpoint-Temperature Hygrometer, Dew point measurement	-32 °C to -25.1 °C	2-Pressure / 1-Temperature with Flow-Box	90 mK	10.0 % to 93.0 % relative humidity
	-25 °C to -10.1 °C		60 mK	
	-10 °C to -0.1 °C		90 mK	
	0.0 °C to 70.0 °C		60 mK	10.0 % to 39.9 % relative humidity
			90 mK	40.0 % to 79.9 % relative humidity
			0.12 K	80.0 % to 95.0 % relative humidity
Temperature measuring instrument, Data loggers, Transducers	-10 °C to -0.1 °C		0.35 K	
	0 °C to 70 °C		0.2 K	
Dew point temperature Dew point measuring instrument, Hygrometer	-32.0 °C to -0.1 °C	2-Pressure / 1-Temperature Generator in Volume	0.25 K	10 % to 85 % relative humidity
	0 °C to 40.0 °C		0.15 K	10 % to 95 % relative humidity
	40.1 °C to 70 °C		0.25 K	
Temperature Temperature gauge, Data loggers, Transducers	-10 °C to 70 °C		0.35 K	
Relative humidity Hygrometer, Data loggers, Transducers	10 % to 20 %		0.7 %	Temperature range: -10 °C to -0.1 °C; Range and measurement uncertainty stated in relative humidity
	20.1 % to 40 %		1.3 %	
	40.1 % to 85 %		2.1 %	
	10 % to 20 %		0.4 %	Temperature range: 0 °C to 70 °C; Range and measurement uncertainty stated in relative humidity
	20.1 % to 40 %		0.7 %	
	40.1 % to 85 %		1.1 %	
	85.1 % to 95 %		1.3 %	

Abbreviations used:

DAkks-DKD-R:

A calibration directive from the "Deutschen Akkreditierungsstelle" formerly "Deutscher Kalibrierdienst"

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