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German Accreditation Body

Annex to the Accreditation Certificate D-K-15025-01-00  
according to DIN EN ISO/IEC 17025:2005

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Holder of certificate:

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Accredited since: 02.06.1998

Calibrations in the fields:

**Electrical quantities**

**DC and low frequency quantities**

- DC voltage
- DC current
- DC resistance
- AC voltage
- AC current

**Dimensional quantities**

**Length**

- Length gauges
- Length measuring instruments

**Thermodynamic quantities**

**Temperature quantities**

- Resistance thermometers
- Liquid in glass thermometers
- Thermocouples

**Humidity quantities**

- Humidity

**Mechanical quantities**

- Mass (mass standards)
- Pressure
- Weighing instruments

Abbreviations used: see last page

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**Permanent Laboratory**

Measured quantity / Calibration item	Range	Measurement conditions / procedure	Best measurement capability <sup>1)</sup>	Remarks
<b>DC Voltage</b> Sources, fixed values	100 mV 1 V; 1.018 V 10 V; 100 V 1000 V	using resistive divider and 10-V-reference standard	$6.4 \cdot 10^{-6} \cdot U$ $2.5 \cdot 10^{-6} \cdot U$ $2.4 \cdot 10^{-6} \cdot U$ $2.6 \cdot 10^{-6} \cdot U$	$U = \text{measured value}$
DC Voltage Sources	10 mV to < 100 mV 100 mV to < 1 V 1 V to < 10 V 10 V to < 100 V 100 V to 1000 V		$3.0 \cdot 10^{-6} \cdot U + 8 \mu\text{V}$ $9.0 \cdot 10^{-6} \cdot U + 7 \mu\text{V}$ $12 \cdot 10^{-6} \cdot U + 4 \mu\text{V}$ $13 \cdot 10^{-6} \cdot U + 50 \mu\text{V}$ $20 \cdot 10^{-6} \cdot U + 0.24 \text{ mV}$	$U = \text{measured value}$
DC Voltage Measuring instruments	1 mV to 2.2 mV > 2.2 mV to 10 mV > 10 mV to 220 mV > 220 mV to 2.2 V > 2.2 V to 11 V > 11 V to 22 V > 22 V to 220 V > 220 V to 1000 V		$2.0 \cdot 10^{-6} \cdot U + 1.2 \mu\text{V}$ $10 \cdot 10^{-6} \cdot U + 1.2 \mu\text{V}$ $2.4 \cdot 10^{-6} \cdot U + 5.8 \mu\text{V}$ $4.0 \cdot 10^{-6} \cdot U + 5.2 \mu\text{V}$ $4.2 \cdot 10^{-6} \cdot U + 3.8 \mu\text{V}$ $4.3 \cdot 10^{-6} \cdot U + 4.0 \mu\text{V}$ $5.6 \cdot 10^{-6} \cdot U + 38 \mu\text{V}$ $7.0 \cdot 10^{-6} \cdot U + 0.38 \text{ mV}$	$U = \text{measured value}$
<b>DC Current</b> Sources, fixed values	50 $\mu\text{A}$ 100 $\mu\text{A}$ 200 $\mu\text{A}$ 500 $\mu\text{A}$ 1 mA 2 mA 5 mA 10 mA 20 mA 50 mA 100 mA 200 mA 500 mA 1 A 2 A 3 A 5 A 8 A 10 A		$14 \cdot 10^{-6} \cdot I$ $16 \cdot 10^{-6} \cdot I$ $14 \cdot 10^{-6} \cdot I$ $13 \cdot 10^{-6} \cdot I$ $13 \cdot 10^{-6} \cdot I$ $16 \cdot 10^{-6} \cdot I$ $15 \cdot 10^{-6} \cdot I$ $15 \cdot 10^{-6} \cdot I$ $21 \cdot 10^{-6} \cdot I$ $24 \cdot 10^{-6} \cdot I$ $22 \cdot 10^{-6} \cdot I$ $32 \cdot 10^{-6} \cdot I$ $19 \cdot 10^{-6} \cdot I$ $28 \cdot 10^{-6} \cdot I$ $59 \cdot 10^{-6} \cdot I$ $54 \cdot 10^{-6} \cdot I$ $52 \cdot 10^{-6} \cdot I$ $150 \cdot 10^{-6} \cdot I$ $142 \cdot 10^{-6} \cdot I$	$I = \text{measured value}$
DC Current Sources	10 $\mu\text{A}$ to < 100 $\mu\text{A}$ 100 $\mu\text{A}$ to < 1 mA 1 mA to < 10 mA 10 mA to < 100 mA 100 mA to 1 A		$48 \cdot 10^{-6} \cdot I + 6.0 \text{ nA}$ $48 \cdot 10^{-6} \cdot I + 9.0 \text{ nA}$ $50 \cdot 10^{-6} \cdot I + 70 \text{ nA}$ $72 \cdot 10^{-6} \cdot I + 0.9 \mu\text{A}$ $0.18 \cdot 10^{-3} \cdot I + 15 \mu\text{A}$	$I = \text{measured value}$
DC Current Measuring instruments	10 $\mu\text{A}$ to < 220 $\mu\text{A}$ 220 $\mu\text{A}$ to 2.2 mA > 2.2 mA to 22 mA > 22 mA to 220 mA > 220 mA to 2.2 A > 2.2 A to 11 A		$42 \cdot 10^{-6} \cdot I + 6.0 \text{ nA}$ $38 \cdot 10^{-6} \cdot I + 7.0 \text{ nA}$ $40 \cdot 10^{-6} \cdot I + 40 \text{ nA}$ $55 \cdot 10^{-6} \cdot I + 0.7 \mu\text{A}$ $0.1 \cdot 10^{-3} \cdot I + 10 \mu\text{A}$ $0.39 \cdot 10^{-3} \cdot I + 0.46 \text{ mA}$	$I = \text{measured value}$

<sup>1)</sup> 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.

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Measured quantity / Calibration item	Range	Measurement conditions / procedure	Best measurement capability <sup>1)</sup>	Remarks
<b>DC Resistance</b> Resistors, fixed values	0.1 Ω		$45 \cdot 10^{-6} \cdot R$	<i>R</i> = measured value
	1 Ω		$9.0 \cdot 10^{-6} \cdot R$	
	1.9 Ω		$8.0 \cdot 10^{-6} \cdot R$	
	10 Ω		$16 \cdot 10^{-6} \cdot R$	
	100 Ω		$9.0 \cdot 10^{-6} \cdot R$	
	1 kΩ		$4.0 \cdot 10^{-6} \cdot R$	
	10 kΩ; 19 kΩ		$2.5 \cdot 10^{-6} \cdot R$	
	100 kΩ		$4.0 \cdot 10^{-6} \cdot R$	
	1 MΩ		$12 \cdot 10^{-6} \cdot R$	
	10 MΩ		$0.11 \cdot 10^{-3} \cdot R$	
	19 MΩ		$0.13 \cdot 10^{-3} \cdot R$	
	100 MΩ		$0.62 \cdot 10^{-3} \cdot R$	
DC Resistance Measuring instruments	1 Ω		$12 \cdot 10^{-6} \cdot R$	<i>R</i> = measured value
	1.9 Ω		$11 \cdot 10^{-6} \cdot R$	
	10 Ω		$16 \cdot 10^{-6} \cdot R$	
	100 Ω		$18 \cdot 10^{-6} \cdot R$	
	1 kΩ		$8.0 \cdot 10^{-6} \cdot R$	
	10 kΩ		$2.5 \cdot 10^{-6} \cdot R$	
	19 kΩ		$3.4 \cdot 10^{-6} \cdot R$	
	100 kΩ		$4.6 \cdot 10^{-6} \cdot R$	
	1 MΩ		$16 \cdot 10^{-6} \cdot R$	
	10 MΩ		$0.13 \cdot 10^{-3} \cdot R$	
	19 MΩ		$0.14 \cdot 10^{-3} \cdot R$	
	100 MΩ		$0.59 \cdot 10^{-3} \cdot R$	
DC Resistance Resistors	1 Ω to 10 Ω		$27 \cdot 10^{-6} \cdot R + 0.11 \text{ m}\Omega$	<i>R</i> = measured value
	> 10 Ω to 100 Ω		$28 \cdot 10^{-6} \cdot R + 1.1 \text{ m}\Omega$	
	> 100 Ω to 1 kΩ		$19 \cdot 10^{-6} \cdot R + 1.1 \text{ m}\Omega$	
	> 1 kΩ to 10 kΩ		$18 \cdot 10^{-6} \cdot R + 12 \text{ m}\Omega$	
	> 10 kΩ to 100 kΩ		$18 \cdot 10^{-6} \cdot R + 0.11 \Omega$	
	> 100 kΩ to 1 MΩ		$28 \cdot 10^{-6} \cdot R + 4.4 \Omega$	
	> 1 MΩ to 10 MΩ		$0.16 \cdot 10^{-3} \cdot R + 86 \Omega$	
	> 10 MΩ to 100 MΩ		$1.3 \cdot 10^{-3} \cdot R + 1.1 \text{ k}\Omega$	
	> 100 MΩ to 1 GΩ		$21 \cdot 10^{-3} \cdot R + 6.4 \text{ k}\Omega$	

<sup>1)</sup> 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.

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Measured quantity / Calibration item	Range	Measurement conditions / procedure	Best measurement capability <sup>1)</sup>	Remarks
<b>AC Voltage</b> Sources	100 mV 1 V 10 V 100 V 1000 V	40 Hz to 1 kHz using AC-DC voltage transfer	$25 \cdot 10^{-6} \cdot U$ $24 \cdot 10^{-6} \cdot U$ $25 \cdot 10^{-6} \cdot U$ $27 \cdot 10^{-6} \cdot U$ $39 \cdot 10^{-6} \cdot U$	$U =$ measured value
AC Voltage Sources	10 mV to < 100 mV 100 mV to < 1 V 1 V to < 10 V 10 V to < 100 V 100 V to 700 V	40 Hz to 1 kHz using AC voltmeter	$77 \cdot 10^{-6} \cdot U + 18 \mu\text{V}$ $0.11 \cdot 10^{-3} \cdot U + 29 \mu\text{V}$ $96 \cdot 10^{-6} \cdot U + 0.23 \text{ mV}$ $0.24 \cdot 10^{-3} \cdot U + 2.4 \text{ mV}$ $0.47 \cdot 10^{-3} \cdot U + 24 \text{ mV}$	$U =$ measured value
AC Voltage Measuring instruments	22 mV to 220 mV > 220 mV to 2.2 V > 2.2 V to 22 V > 22 V to 220 V > 220 V to 1000 V	40 Hz to 1 kHz	$67 \cdot 10^{-6} \cdot U + 13 \mu\text{V}$ $50 \cdot 10^{-6} \cdot U + 12 \mu\text{V}$ $52 \cdot 10^{-6} \cdot U + 46 \mu\text{V}$ $59 \cdot 10^{-6} \cdot U + 0.56 \text{ mV}$ $80 \cdot 10^{-6} \cdot U + 3.2 \text{ mV}$	$U =$ measured value
<b>AC Current</b> Sources	50 mA 100 mA 200 mA 500 mA 1 A 2 A 3 A 5 A 10 A	40 Hz to 1 kHz using AC-DC current transfer	$29 \cdot 10^{-6} \cdot I$ $26 \cdot 10^{-6} \cdot I$ $35 \cdot 10^{-6} \cdot I$ $26 \cdot 10^{-6} \cdot I$ $33 \cdot 10^{-6} \cdot I$ $67 \cdot 10^{-6} \cdot I$ $62 \cdot 10^{-6} \cdot I$ $61 \cdot 10^{-6} \cdot I$ $0.16 \cdot 10^{-3} \cdot I$	$I =$ measured value
AC Current Sources	10 mA to < 100 mA 10 mA to < 100 mA 100 mA to 1 A 100 mA to 1 A	40 Hz to 100 Hz > 100 Hz to 1 kHz 40 Hz to 100 Hz > 100 Hz to 1 kHz	$0.71 \cdot 10^{-3} \cdot I + 24 \mu\text{A}$ $0.37 \cdot 10^{-3} \cdot I + 24 \mu\text{A}$ $0.96 \cdot 10^{-3} \cdot I + 0.24 \text{ mA}$ $1.2 \cdot 10^{-3} \cdot I + 0.24 \text{ mA}$	$I =$ measured value
AC Current Measuring instruments	> 22 mA to 220 mA > 220 mA to 2.2 A > 2.2 A to 5 A > 5 A to 11 A	40 Hz to 1 kHz	$0.13 \cdot 10^{-3} \cdot I + 2.5 \mu\text{A}$ $0.27 \cdot 10^{-3} \cdot I + 34 \mu\text{A}$ $0.47 \cdot 10^{-3} \cdot I + 0.17 \text{ mA}$ $0.49 \cdot 10^{-3} \cdot I + 0.16 \text{ mA}$	$I =$ measured value

<sup>1)</sup> 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.

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Measured quantity / Calibration item	Range	Measurement conditions / procedure	Best measurement capability <sup>1)</sup>	Remarks
<b>Length</b>				
Micrometer for external measurements	0 mm to 250 mm	VDI/ VDE/ DGQ 2618 Part 10.1	$3 \mu\text{m} + 10 \cdot 10^{-6} \cdot l$	
Vernier caliper for external, internal and depth measurements (including digital and dial indicators)	0 mm to 400 mm > 400 mm to 500 mm	VDI/ VDE/ DGQ 2618 Part 9.1	$30 \mu\text{m} + 30 \cdot 10^{-6} \cdot l$ $60 \mu\text{m} + 30 \cdot 10^{-6} \cdot l$	
Dial Gauges	0 mm to 100 mm	VDI/ VDE/ DGQ 2618 Part 11.1	$6 \mu\text{m} + 10 \cdot 10^{-6} \cdot l$	
Gauge blocks made of steel or ceramics according to ISO 3650	0.5 mm to 100 mm	Measurement of the deviation of the central length $l_c$ from the nominal length $l_n$ by comparison method. Standard and gauge block under test must be of same nominal length. Standards made of ceramics.  Measurement of the deviations $f_o$ and $f_u$ from the central length $l_c$ by 5 point comparison method.	For the central length $0.08 \mu\text{m} + 0.8 \cdot 10^{-6} \cdot l$ , $l$ is the length of the gauge block.  For the deviations $f_o$ and $f_u$ from the central length $0.05 \mu\text{m}$ .	Quality of the measuring faces according to the commitments in the Laboratory Quality Manual and the Calibration Procedure
Gauge blocks made of tungsten carbide according to ISO 3650	0.5 mm to 100 mm	Measurement of the deviation of the central length $l_c$ from the nominal length $l_n$ by comparison method. Standard and gauge block under test must be of same nominal length and made of the same material.  Measurement of the deviations $f_o$ and $f_u$ from the central length $l_c$ by 5 point comparison method.	For the central length $0.08 \mu\text{m} + 0.5 \cdot 10^{-6} \cdot l$ , $l$ is the length of the gauge block.  For the deviations $f_o$ and $f_u$ from the central length $0.05 \mu\text{m}$ .	Quality of the measuring faces according to the commitments in the Laboratory Quality Manual and the Calibration Procedure

<sup>1)</sup> 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.

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Measured quantity / Calibration item	Range	Measurement conditions / procedure	Best measurement capability <sup>1)</sup>	Remarks
<b>Conventional Mass</b>	1 mg, 2 mg, 5 mg		0.003 mg	OIML recommendation R 111, class E <sub>2</sub>
	10 mg, 20 mg		0.003 mg	
	50 mg		0.004 mg	
	100 mg		0.005 mg	
	200 mg		0.006 mg	
	500 mg		0.008 mg	
	1 g		0.010 mg	
	2 g		0.012 mg	
	5 g		0.016 mg	
	10 g		0.020 mg	
	20 g		0.025 mg	
	50 g		0.030 mg	
	100 g		0.05 mg	
	200 g		0.10 mg	
	500 g		0.25 mg	
	1 kg		0.5 mg	
	2 kg		1 mg	
5 kg		2.5 mg		
10 kg		5 mg		
	20 kg		30 mg	OIML recommendation R 111, class F <sub>1</sub>
	50 kg		80 mg	
Conventional Mass	1 mg to 100 mg		0.005 mg	For free nominal values  m <sub>c</sub> = conventional mass
	> 100 mg to 200 mg		0.006 mg	
	> 200 mg to 500 mg		0.008 mg	
	> 500 mg to 1 g		0.010 mg	
	> 1 g to 2 g		0.012 mg	
	> 2 g to 5 g		0.015 mg	
	> 5 g to 10 g		0.020 mg	
	> 10 g to 20 g		0.025 mg	
	> 20 g to 50 g		0.030 mg	
	> 50 g to 100 g		0.05 mg	
	> 100 g to 10 kg		$5 \cdot 10^{-7} \cdot m_c$	
	> 10 kg to 50 kg		$16 \cdot 10^{-6} \cdot m_c$	

<sup>1)</sup> 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.

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Measured quantity / Calibration item	Range	Measurement conditions / procedure	Best measurement capability <sup>1)</sup>	Remarks
<b>Temperature</b>				
Standard platinum resistance thermometers	0.01 °C 29.7646 °C 156.5985 °C 231.928 °C 419.527 °C 660.323 °C 961.78 °C		8 mK 10 mK 10 mK 10 mK 15 mK 20 mK 50 mK	Calibration at fix point temperatures of ITS-90
Resistance thermometers, direct-reading thermometers and data loggers	-65 °C to -40 °C > -40 °C to 0 °C > 0 °C to 95 °C > 95 °C to 250 °C 200 °C to 500 °C 0 °C to 70 °C	Ethanol bath Ethanol bath Water bath Oil bath Salt bath Climatic chamber	50 mK 20 mK 20 mK 30 mK 50 mK 0.5 K	Comparison with standard platinum resistance thermometer
Liquid in glass thermometers	-40 °C to 0 °C > 0 °C to 95 °C > 95 °C to 250 °C 200 °C to 500 °C	Ethanol bath Water bath Oil bath Salt bath	30 mK 30 mK 35 mK 100 mK	Comparison with standard platinum resistance thermometer
Noble metal thermocouples	231.928 °C 419.527 °C 660.323 °C		0.6 K 0.7 K 0.8 K	Calibration at fixed point temperatures of ITS-90
	961.78 °C 1084.62 °C		1.0 K 1.2 K	Calibration at fixed point temperatures
	-65 °C to 0 °C > 0 °C to 95 °C > 95 °C to 250 °C	Ethanol bath Water bath Oil bath	0.5 K 0.2 K 0.7 K	Comparison with standard platinum resistance thermometer
	200 °C to 500 °C > 500 °C to 1100 °C	Salt bath / Furnace Furnace	0.8 K 1.5 K	Comparison with noble metal thermocouple
Base metal thermocouples	0 °C to 400 °C > 400 °C to 1100 °C	Furnace Furnace	0.8 K 2.0 K	Comparison method
	<b>Humidity</b> Hygrometers / Humidity Sensors, Humidity Indicators	10 % to 20 % > 20 % to 30 % > 30 % to 50 % > 50 % to 75 % > 75 % to 90 % > 90 % to 95 %	0°C to 70°C JNMISMP56	0.28 % RH 0.37 % RH 0.67 % RH 0.90 % RH 1.00 % RH 1.18 % RH
10 % to 20 % > 20 % to 30 % > 30 % to 50 % > 50 % to 75 % > 75 % to 90 % > 90 % to 95 %		0°C to 70°C JNMISMP57	0.50 % RH 0.66 % RH 1.2 % RH 1.6 % RH 1.8 % RH 2.2 % RH	Reference is capacitive sensor Uncertainty is an Absolute Value of Relative Humidity

<sup>1)</sup> 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.

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Measured quantity / Calibration item	Range	Measurement conditions / procedure	Best measurement capability <sup>1)</sup>	Remarks
<b>Pressure</b> Absolute pressure $p_{abs}$	0,1 bar to 3,5 bar > 3,5 bar to 35 bar > 35 bar to 201 bar	DAkKS-DKD R 6-1 EURAMET/cg-17/v.01	$4,6 \cdot 10^{-5} \cdot p_{abs}$ but not less than 12 $\mu$ bar  $4,6 \cdot 10^{-5} \cdot p_{abs}$  $7,5 \cdot 10^{-5} \cdot p_{abs}$	Pressure medium: Gas The uncertainty of the residual pressure has to be taken into account.  in connection with a gas/ oil volume Principle of measurement: $p_{abs} = p_e + p_{amb}$ The uncertainty of the measured atmospheric pressure has to be taken into account.
Absolute pressure $p_{abs}$	0,8 bar; 20,8 bar to 700,8 bar	DAkKS-DKD R 6-1 EURAMET/cg-17/v.01	$7,5 \cdot 10^{-5} \cdot p_{abs}$ but not less than 4,8 mbar	Pressure medium: Oil Principle of measurement: $p_{abs} = p_e + p_{amb}$ The uncertainty of the measured atmospheric pressure has to be taken into account.
Gauge pressure $p_e$	-0,7 bar to 0 bar > 0 bar to 0,1 bar > 0,1 bar to 3,5 bar > 3,5 bar to > 35 bar > 35 bar to 200 bar	DAkKS-DKD R 6-1 EURAMET/cg-17/v.01	0,12 mbar 0,80 mbar $4,6 \cdot 10^{-5} \cdot p_e$ but not less than 12 $\mu$ bar $4,6 \cdot 10^{-5} \cdot p_e$ $7,5 \cdot 10^{-5} \cdot p_e$	Pressure medium: Gas    in connection with a gas/ oil volume
Gauge pressure $p_e$	20 bar to 700 bar	DAkKS-DKD R 6-1 EURAMET/cg-17/v.01	$7,5 \cdot 10^{-5} \cdot p_e$ but not less than 4,8 mbar	Pressure medium: Oil

**On-site calibration**

Measured quantity / Calibration item	Range	Measurement conditions / procedure	Best measurement capability <sup>1)</sup>	Remarks
<b>Balances</b>	up to 470 kg	EURAMET/cg-18/v.02 Calibration at place of installation and at other places	$3 \cdot 10^{-6}$	
<b>Pressure</b> Gauge pressure $p_e$	-0,7 bar to 0,7 bar > 0,7 bar to 20 bar > 20 bar to 200 bar	DAkKS-DKD R 6-1 EURAMET/cg-17/v.01	0,12 mbar 0,80 mbar 21 mbar	Pressure medium: Gas
Gauge pressure $p_e$	0 bar to 700 bar	DAkKS-DKD R 6-1 EURAMET/cg-17/v.01	21 mbar	Pressure medium: Oil

**Abbreviations used:**

DAkKS-DKD-R 6-1 Guideline on „Calibration of Pressure Gauges“

EURAMET/cg-xx Calibration Guideline from “European Association of National Metrology Institutes“

<sup>1)</sup> 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.