

# Deutsche Akkreditierungsstelle GmbH

## Annex to the Accreditation Certificate D-K-12029-01-00 according to DIN EN ISO/IEC 17025:2018

**Valid from:** 17.06.2022

**Date of issue:** 17.06.2022

Holder of certificate:

**Hottinger Brüel & Kjaer GmbH  
Im Tiefen See 45, 64293 Darmstadt**

Calibration in the fields:

### **Mechanical quantities**

- Torque<sup>\*)</sup>
- Force<sup>\*)</sup>
- Pressure<sup>\*)</sup>

### **Thermodynamic quantities**

#### **Temperature quantities**

- Temperature indicators and simulators<sup>a)\*)</sup>

### **Electrical quantities**

#### **DC and low frequency**

- Voltage ratio<sup>a)</sup>
- DC voltage<sup>a)</sup>
- DC current<sup>a)</sup>
- DC resistance<sup>a)</sup>

### **Time and frequency**

- Frequency<sup>a)</sup>

<sup>a)</sup> also On-site calibration

Within the measurands/calibration items marked with with <sup>\*)</sup>, the calibration laboratory is permitted, without being required to inform and obtain prior approval from DAkKS, to use calibration standards or equivalent calibration procedures listed here with different issue dates.

The calibration laboratory maintains a current list of all calibration standards / equivalent calibration procedures within the flexible scope of accreditation.

*The management system requirements of DIN EN ISO/IEC 17025 are written in the language relevant to the operations of calibration laboratories. Laboratories that conform to the requirements of this standard, operate generally in accordance with the principles of DIN EN ISO 9001.*

*The certificate together with the annex reflects the status as indicated by the date of issue.*

*The current status of any given scope of accreditation can be found in the directory of accredited bodies maintained by Deutsche Akkreditierungsstelle GmbH at <https://www.dakks.de/en/accredited-bodies-search.html>.*

Abbreviations used: see last page

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**This document is a translation. The definitive version is the original German annex to the accreditation certificate.**

**Annex to the accreditation certificate D-K-12029-01-00**
**Permanent Laboratory**
**Calibration and Measurement Capabilities (CMC)**

Measurement quantity / Calibration item	Range	Measurement conditions / procedure	Expanded uncertainty of measurement	Remarks
<b>Torque<sup>*)</sup></b> torque transducer and torque measurement chain	2 N·m to 200 N·m	DIN 51309:2005 DKD-R 10-5:2020	$4 \cdot 10^{-4}$	200-N·m-T-RCM, correction 1.00025 right- and left hand torque
	5 N·m to 1000 N·m	VDI/VDE 2646:2019	$1 \cdot 10^{-4}$	1-kN·m- T-RCM
	5 N·m to 25 kN·m		$2 \cdot 10^{-4}$	Torque-reference RCM
	50 N·m to 200 N·m		$4 \cdot 10^{-4}$	20-kN·m- T-RCM
	250 N·m to 20 kN·m		$2 \cdot 10^{-4}$	
	100 N·m to 20 kN·m		$0.8 \cdot 10^{-4}$	25-kN·m- T-RCM
	> 20 kN·m to 25 kN·m		$1 \cdot 10^{-4}$	
	3 kN·m to 400 kN·m	DIN 51309:2005 VDI/VDE 2646:2019	$1 \cdot 10^{-3}$	400-kN·m- T-RCM
<b>Force<sup>*)</sup></b>	2.5 N to 200 N	DIN EN ISO 376:2011 DKD-R 3-3:2010	$5 \cdot 10^{-5}$	200-N-F-RCM compression force
			$8 \cdot 10^{-5}$	200-N- F-RCM tractive force
	50 N to 2.5 kN		$5 \cdot 10^{-5}$	2.5-kN- F-RCM compression force
			$8 \cdot 10^{-5}$	2.5-kN- F-RCM tractive force
	1 kN to 20 kN		$2 \cdot 10^{-4}$	20-kN- F-RCM tractive and compression force
	500 N to 25 kN		$5 \cdot 10^{-5}$	25-kN- F-RCM compression force
			$8 \cdot 10^{-5}$	25-kN- F-RCM tractive force
	5 kN to 100 kN		$2 \cdot 10^{-4}$	100-kN- F-RCM tractive and compression force
	5 kN to 240 kN		$1 \cdot 10^{-4}$	240-kN- F-RCM tractive and compression force
	50 kN to 1 MN		$1 \cdot 10^{-4}$	1-MN- F-RCM compression force
	50 kN to 600 kN		$2 \cdot 10^{-4}$	1-MN- F-RCM tractive force
	100 kN to 5 MN		$2 \cdot 10^{-4}$	5-MN- F-RCM tractive and compression force
50 N to 240 kN	$2 \cdot 10^{-4}$	Force-reference RCM tractive and compression force		
<b>Pressure<sup>*)</sup></b> positive pressure $p_e$	0 bar; 50 bar to 3600 bar	DKD-R 6-1:2014	$2 \cdot 10^{-4} \cdot p_e$ ; but not < 72 mbar	pressure medium: Oil

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Measurement quantity / Calibration item	Range	Measurement conditions / procedure	Expanded uncertainty of measurement	Remarks	
<b>Frequency</b> measuring devices	200 Hz to 2000 kHz		$12 \cdot 10^{-6} \cdot f$	<i>f</i> : actual measured value	
<b>Temperature*)</b> display devices for resistance thermometer PT 100	-100 °C to 200 °C	DKD-R 5-5:2018	0.025 K	sensor signal by electrical simulation characteristic according to DIN EN 60751:2009	
	> 200 °C to 500 °C		0.04 K		
	> 500 °C to 800 °C		0.05 K		
display devices for resistance thermometer PT 500	-100 °C to 200 °C		0.025 K		
	> 200 °C to 500 °C		0.075 K		
	> 500 °C to 800 °C		0.18 K		
display devices for resistance thermometer PT 1000	-100 °C to 200 °C		0.035 K		
	> 200 °C to 500 °C		0.18 K		
	> 500 °C to 800 °C		0.24 K		
display devices for thermocouples type K	-100 °C to 800 °C		0.12 K		sensor signal by electrical simulation characteristic according to DIN EN 60584:2014 (referred to 0 °C)
	> 800 °C to 1300 °C		0.3 K		
Anzeigergeräte für Thermoelemente type T	-200 °C to 400 °C				0.12 K
<b>DC voltage</b> measuring devices	0 V		1 µV	<i>U</i> : actual measured value	
	0.001 V to 0.22 V		$7 \cdot 10^{-6} \cdot U + 2 \mu\text{V}$		
	> 0.22 V to 2.2 V		$8 \cdot 10^{-6} \cdot U + 2 \mu\text{V}$		
	> 2.2 V to 11 V		$8 \cdot 10^{-6} \cdot U + 4 \mu\text{V}$		
	> 11 V to 22 V		$9 \cdot 10^{-6} \cdot U + 10 \mu\text{V}$		
	> 22 V to 220 V		$30 \cdot 10^{-6} \cdot U + 40 \mu\text{V}$		
sources	0.0 V to 0.1 V		$6 \cdot 10^{-6} \cdot U + 0.4 \mu\text{V}$	<i>U</i> : actual measured value	
	> 0.1 V to 1 V		$5 \cdot 10^{-6} \cdot U + 0.4 \mu\text{V}$		
	> 1 V to 10 V		$5 \cdot 10^{-6} \cdot U + 0.4 \mu\text{V}$		
	> 10 V to 100 V		$50 \cdot 10^{-6} \cdot U + 1\,000 \mu\text{V}$		
<b>DC current</b> measuring devices	0.001 A to 0.022 A		$50 \cdot 10^{-6} \cdot I + 0.3 \mu\text{A}$	<i>I</i> : actual measured value	
	> 0.022 A to 0.22 A		$60 \cdot 10^{-6} \cdot I + 2 \mu\text{A}$		

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<b>DC resistance</b> measuring devices	16 Ω to 400 Ω		$40 \cdot 10^{-6} \cdot R + 3.5 \text{ m}\Omega$	R: actual measured value		
	> 400 Ω to 2 000 Ω		$60 \cdot 10^{-6} \cdot R$			
	> 2 000 Ω to 10 000 Ω		$170 \cdot 10^{-6} \cdot R$			
resistance	0.1 Ω to 10 Ω		$18 \cdot 10^{-6} \cdot R + 0.05 \text{ m}\Omega$			
	> 10 Ω to 100 Ω		$15 \cdot 10^{-6} \cdot R + 0.5 \text{ m}\Omega$			
	> 100 Ω to 1000 Ω		$12 \cdot 10^{-6} \cdot R + 5 \text{ m}\Omega$			
	> 1000 Ω to 10000 Ω		$12 \cdot 10^{-6} \cdot R + 50 \text{ m}\Omega$			
<b>Voltage ratio</b> bridge calibration unit	0 mV/V	DC voltage bridge voltage: 1.0 V	0.2 μV/V	calibration in any points between negativ und positiv value within the specified measuring range		
	± 2 mV/V		0.25 μV/V			
	± 5 mV/V		0.3 μV/V			
	± 10 mV/V		0.3 μV/V			
	± 20 mV/V		0.4 μV/V			
	± 100 mV/V		1 μV/V			
	± 1 000 mV/V		10 μV/V			
	0 mV/V	DC voltage bridge voltage: > 1 V to 2.5 V	0.1 μV/V			
	± 2 mV/V		0.1 μV/V			
	± 5 mV/V		0.2 μV/V			
	± 10 mV/V		0.2 μV/V			
	± 20 mV/V		0.2 μV/V			
	± 100 mV/V		1 μV/V			
	± 1 000 mV/V		10 μV/V			
	0 mV/V	DC voltage bridge voltage: > 2.5 V to 7.5 V	0.1 μV/V			
	± 2 mV/V		0.1 μV/V			
	± 5 mV/V		0.1 μV/V			
	± 10 mV/V		0.1 μV/V			
	± 20 mV/V		0.2 μV/V			
	± 100 mV/V		1 μV/V			
	± 1 000 mV/V		10 μV/V			
	<b>Voltage ratio</b> bridge calibration unit	0 mV/V	DC voltage bridge voltage: > 7.5 V to 10 V		0.1 μV/V	calibration in any points between negativ und positiv value with the specified measuring range
		± 2 mV/V			0.1 μV/V	
		± 5 mV/V			0.1 μV/V	
± 10 mV/V		0.1 μV/V				
± 20 mV/V		0.2 μV/V				
± 100 mV/V		1 μV/V				
± 200 mV/V		2 μV/V				

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**Calibration and Measurement Capabilities (CMC)**

Measurement quantity / Calibration item	Range	Measurement conditions / procedure	Expanded uncertainty of measurement	Remarks
<b>Voltage ratio</b> measuring devices	± 2 mV/V	DC voltage bridge voltage: 1.0 V	0.5 µV/V	calibration in any points between negativ und positiv value with the specified measuring range
	± 5 mV/V		0.5 µV/V	
	± 10 mV/V		1.0 µV/V	
	± 20 mV/V		1.5 µV/V	
	± 100 mV/V		15 µV/V	
	± 1 000 mV/V		150 µV/V	
	± 2 mV/V	DC voltage bridge voltage: > 1 V to 10 V	0.3 µV/V	
	± 5 mV/V		0.6 µV/V	
	± 10 mV/V		1.2 µV/V	
	± 20 mV/V		2.4 µV/V	
	± 100 mV/V		12 µV/V	
	± 1 000 mV/V		120 µV/V	
	± 2 mV/V	measuring frequency: 600 Hz to 1250 Hz square- bridge voltage: 1 V	0.5 µV/V	
	± 5 mV/V		0.5 µV/V	
	± 10 mV/V		1 µV/V	
	± 20 mV/V		1.5 µV/V	
	± 100 mV/V		15 µV/V	
	± 2 mV/V	measuring frequency: 600 Hz to 1250 Hz square- bridge voltage: > 1 V to 5 V	0.3 µV/V	
	± 5 mV/V		0.6 µV/V	
	± 10 mV/V		1.2 µV/V	
± 20 mV/V	2.4 µV/V			
± 20 mV/V	2.4 µV/V			
<b>Voltage ratio</b> quarter and half bridge, measuring devices	± 2 mV/V	DC voltage and measuring frequency: 600 Hz to 1250 Hz square- bridge voltage:1.0 V	1 µV/V	calibration in any points between negativ und positiv value with the specified measuring range
	± 5 mV/V		2 µV/V	
	± 10 mV/V		2 µV/V	
	± 20 mV/V		5 µV/V	
	± 100 mV/V		20 µV/V	
	± 2 mV/V	DC voltage and measuring frequency: 600 Hz to 1250 Hz square- bridge voltage: > 1 V to 2.5 V	1 µV/V	
	± 5 mV/V		2 µV/V	
	± 10 mV/V		2 µV/V	
	± 20 mV/V		5 µV/V	
	± 100 mV/V		20 µV/V	
	± 2 mV/V	DC voltage and measuring frequency: 600 Hz to 1250 Hz square- bridge voltage: > 2.5 V to 5.0 V	1 µV/V	
	± 5 mV/V		2 µV/V	
	± 10 mV/V		2 µV/V	

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**Calibration and Measurement Capabilities (CMC)**

Measurement quantity / Calibration item	Range	Measurement conditions / procedure	Expanded uncertainty of measurement	Remarks
Voltage ratio  350 Ω – bridge calibration unit and display devices	0 mV/V ± 0.5 mV/V ± 1 mV/V ± 2 mV/V ± 5 mV/V ± 10 mV/V	DC voltage  bridge voltage: 5 V oder 10 V	0.2 μV/V 0.2 μV/V 0.2 μV/V 0.2 μV/V $1 \cdot 10^{-4} \cdot \text{measured value}$ $1 \cdot 10^{-4} \cdot \text{measured value}$	resistive reference standard  calibration in any points between negativ und positiv value with the specified measuring range
	± 2.5 mV/V ± 5 mV/V	measuring frequency 225 Hz  bridge voltage: 2.5 V	0.03 μV/V 0.04 μV/V	inductive bridge reference standard  calibration in any points between negativ und positiv value with the specified measuring range
	± 2.5 mV/V ± 5 mV/V	measuring frequency 225 Hz  bridge voltage: 5 V	0.02 μV/V 0.03 μV/V	
	± 2.5 mV/V	measuring frequency 225 Hz  bridge voltage: 10 V	0.02 μV/V	
	± 2.5 mV/V ± 5 mV/V ± 10 mV/V	measuring frequency 600 Hz  bridge voltage 1 V	0.2 μV/V 0.2 μV/V 0.3 μV/V	
	± 2.5 mV/V ± 5 mV/V ± 10 mV/V	measuring frequency 600 Hz  bridge voltage 2.5 V	0.06 μV/V 0.08 μV/V 0.2 μV/V	
	± 2.5 mV/V ± 5 mV/V ± 10 mV/V	measuring frequency 600 Hz  bridge voltage 5 V	0.03 μV/V 0.06 μV/V 0.2 μV/V	
	± 2 mV/V ± 10 mV/V ± 100 mV/V ± 1000 mV/V	measuring frequency 4.8 kHz  bridge voltage 1 V	0.4 μV/V 1.5 μV/V 10 μV/V 50 μV/V	resistive reference standard  calibration in any points between negativ und positiv value with the specified measuring range
	± 2 mV/V ± 5 mV/V ± 10 mV/V ± 100 mV/V ± 1000 mV/V	measuring frequency 4.8 kHz  bridge voltage 2.5 V	0.3 μV/V 0.6 μV/V 1.5 μV/V 10 μV/V 50 μV/V	
	± 2 mV/V ± 5 mV/V ± 10 mV/V ± 100 mV/V	measuring frequency 4.8 kHz  bridge voltage 5 V	0.25 μV/V 0.6 μV/V 1.5 μV/V 10 μV/V	

**Annex to the accreditation certificate D-K-12029-01-00**
**On-site calibration**
**Calibration and Measurement Capabilities (CMC)**

Measurement quantity / Calibration item	Range	Measurement conditions / procedure	Expanded uncertainty of measurement	Remarks	
<b>Frequency</b> measuring devices	200 Hz to 2000 kHz		$12 \cdot 10^{-6} \cdot f$	<i>f</i> : actual measured value	
<b>Temperatur<sup>*)</sup></b> display devices for resistance thermometer PT 100	-100 °C to 200 °C	DKD-R 5-5:2018	0.025 K	sensor signal by electrical simulation characteristic according to DIN EN 60751:2009	
	> 200 °C to 500 °C		0.04 K		
	> 500 °C to 800 °C		0.05 K		
display devices for resistance thermometer PT 500	-100 °C to 200 °C		0.025 K		
	> 200 °C to 500 °C		0.075K		
	> 500 °C to 800 °C		0.18 K		
display devices for resistance thermometer PT 1000	-100 °C to 200 °C		0.035 K		
	> 200 °C to 500 °C		0.18 K		
	> 500 °C to 800 °C		0.24 K		
display devices for thermocouples type K	-100 °C to 800 °C		0.12 K		sensor signal by electrical simulation characteristic according to DIN EN 60584:2014 (referred to 0 °C)
	> 800 °C to 1 300 °C		0.3 K		
display devices for thermocouples type T	-200 °C to 400 °C		0.12 K		
<b>DC voltage</b> measuring devices	0 V to 0.045 V				$30 \cdot 10^{-6} \cdot U + 4 \mu\text{V}$
	> 0.045 V to 0.3 V	$35 \cdot 10^{-6} \cdot U + 13 \mu\text{V}$			
	> 0.3 V to 0.45 V	$35 \cdot 10^{-6} \cdot U + 22 \mu\text{V}$			
	> 0.45 V to 3 V	$35 \cdot 10^{-6} \cdot U + 125 \mu\text{V}$			
	> 3 V to 4.5 V	$35 \cdot 10^{-6} \cdot U + 215 \mu\text{V}$			
	> 4.5 V to 30 V	$35 \cdot 10^{-6} \cdot U + 1\,300 \mu\text{V}$			
	> 30 V to 60 V	$35 \cdot 10^{-6} \cdot U + 2\,500 \mu\text{V}$			
sources	0.001 V to 0.1 V		$35 \cdot 10^{-6} \cdot U + 8 \mu\text{V}$	<i>U</i> : actual measured value	
	> 0.1 V to 1 V		$35 \cdot 10^{-6} \cdot U + 11 \mu\text{V}$		
	> 1 V to 10 V		$35 \cdot 10^{-6} \cdot U + 60 \mu\text{V}$		
	> 10 V to 100 V		$50 \cdot 10^{-6} \cdot U + 1\,000 \mu\text{V}$		

Annex to the accreditation certificate D-K-12029-01-00

On-site calibration

Calibration and Measurement Capabilities (CMC)

Measurement quantity / Calibration item	Range	Measurement conditions / procedure	Expanded uncertainty of measurement	Remarks
DC current measuring devices	0.002 A to 0.0075 A		$90 \cdot 10^{-6} \cdot I + 0.9 \mu\text{A}$	I: actual measured value
	> 0.0075 A to 0.052 A		$90 \cdot 10^{-6} \cdot I + 4 \mu\text{A}$	
DC resistance measuring devices	16 $\Omega$ to 400 $\Omega$		$40 \cdot 10^{-6} \cdot R + 3.5 \text{ m}\Omega$	R: actual measured value
	> 400 $\Omega$ to 2 000 $\Omega$		$60 \cdot 10^{-6} \cdot R$	
	> 2 000 $\Omega$ to 10 000 $\Omega$		$170 \cdot 10^{-6} \cdot R$	
Voltage ratio measuring devices	$\pm 2 \text{ mV/V}$	DC voltage bridge voltage: 1.0 V	0.5 $\mu\text{V/V}$	calibration in any points between negativ und positiv value with the specified measuring range
	$\pm 5 \text{ mV/V}$		0.5 $\mu\text{V/V}$	
	$\pm 10 \text{ mV/V}$		1.0 $\mu\text{V/V}$	
	$\pm 20 \text{ mV/V}$		1.5 $\mu\text{V/V}$	
	$\pm 100 \text{ mV/V}$		15 $\mu\text{V/V}$	
	$\pm 1 000 \text{ mV/V}$		150 $\mu\text{V/V}$	
	$\pm 2 \text{ mV/V}$	DC voltage bridge voltage: > 1 V to 10 V	0.3 $\mu\text{V/V}$	
	$\pm 5 \text{ mV/V}$		0.6 $\mu\text{V/V}$	
	$\pm 10 \text{ mV/V}$		1.2 $\mu\text{V/V}$	
	$\pm 20 \text{ mV/V}$		2.4 $\mu\text{V/V}$	
	$\pm 100 \text{ mV/V}$		12 $\mu\text{V/V}$	
	$\pm 1 000 \text{ mV/V}$		120 $\mu\text{V/V}$	
	$\pm 2 \text{ mV/V}$	measuring frequency: 600 Hz to 1250 Hz square bridge voltage: 1 V	0.5 $\mu\text{V/V}$	
	$\pm 5 \text{ mV/V}$		0.5 $\mu\text{V/V}$	
	$\pm 10 \text{ mV/V}$		1 $\mu\text{V/V}$	
	$\pm 20 \text{ mV/V}$		1.5 $\mu\text{V/V}$	
	$\pm 100 \text{ mV/V}$		15 $\mu\text{V/V}$	
	$\pm 2 \text{ mV/V}$	measuring frequency: 600 Hz to 1250 Hz square bridge voltage: > 1 V to 5 V	0.3 $\mu\text{V/V}$	
	$\pm 5 \text{ mV/V}$		0.6 $\mu\text{V/V}$	
	$\pm 10 \text{ mV/V}$		1.2 $\mu\text{V/V}$	
	$\pm 20 \text{ mV/V}$		2.4 $\mu\text{V/V}$	
	$\pm 2 \text{ mV/V}$	measuring frequency: 4.8 kHz bridge voltage: 1 V	0.5 $\mu\text{V/V}$	
	$\pm 10 \text{ mV/V}$		2 $\mu\text{V/V}$	
	$\pm 100 \text{ mV/V}$		15 $\mu\text{V/V}$	
$\pm 1 000 \text{ mV/V}$	120 $\mu\text{V/V}$			
$\pm 2 \text{ mV/V}$	measuring frequency: 4.8 kHz bridge voltage: 2.5 V	0.4 $\mu\text{V/V}$		
$\pm 5 \text{ mV/V}$		2 $\mu\text{V/V}$		
$\pm 10 \text{ mV/V}$		2 $\mu\text{V/V}$		
$\pm 100 \text{ mV/V}$		15 $\mu\text{V/V}$		
$\pm 2 \text{ mV/V}$	measuring frequency: 4.8 kHz bridge voltage: 5 V	0.4 $\mu\text{V/V}$		



**On-site calibration**
**Calibration and Measurement Capabilities (CMC)**

Measurement quantity / Calibration item	Range	Measurement conditions / procedure	Expanded uncertainty of measurement	Remarks	
<b>Voltage ratio</b> measuring devices	± 2 mV/V	measuring frequency: 600 Hz bridge voltage: 2.5 V	0.1 µV/V	calibration in any points between negativ und positiv value with the specified measuring range	
	± 5 mV/V		0.2 µV/V		
	± 10 mV/V		1 µV/V		
	± 2 mV/V	measuring frequency: 600 Hz bridge voltage: 5 V	0.1 µV/V		
	± 5 mV/V		0.2 µV/V		
	± 2.5 mV/V	measuring frequency: 225 Hz bridge voltage: 2.5 V	0.06 µV/V		Kalibrieren von Anzeigegeräten über ein induktives Brücken-bezugsnormal calibration in any points between negativ und positiv value with the specified measuring range
	± 5 mV/V		0.08 µV/V		
	± 2.5 mV/V	measuring frequency: 225 Hz bridge voltage: 5 V	0.04 µV/V		
± 5 mV/V	0.06 µV/V				
<b>Voltage ratio</b> quarter and half bridge, measuring devices	± 2 mV/V	DC voltage and measuring frequency: 600 Hz to 1250 Hz square bridge voltage: 1.0 V	1 µV/V	calibration in any points between negativ und positiv value with the specified measuring range	
	± 5 mV/V		2 µV/V		
	± 10 mV/V		2 µV/V		
	± 20 mV/V		5 µV/V		
	± 100 mV/V		20 µV/V		
	± 2 mV/V	DC voltage and measuring frequency: 600 Hz to 1250 Hz square bridge voltage: > 1 V to 2.5 V	1 µV/V		
	± 5 mV/V		2 µV/V		
	± 10 mV/V		2 µV/V		
	± 20 mV/V		5 µV/V		
	± 100 mV/V		20 µV/V		
	± 2 mV/V	DC voltage and measuring frequency: 600 Hz to 1250 Hz square bridge voltage: > 2.5 V to 5.0 V	1 µV/V		
	± 5 mV/V		2 µV/V		
	± 10 mV/V		2 µV/V		
			2 µV/V		

**Abbreviations used:**

CMC	Calibration and measurement capabilities (Kalibrier- und Messmöglichkeiten)
DKD-R	Calibration guide of Deutscher Kalibrierdienstes (DKD), published by Physikalisch-Technische Bundesanstalt
EURAMET	European Association of National Metrology Institutes