

Accredited entity according to ČSN EN ISO/IEC 17025:2018:

VÍTKOVICE TESTING CENTER s. r. o.
Metrological Inspection Centre
Kotkova 431/4a, 703 00 Ostrava – Vítkovice

CMC for the field of measured quantity: Length

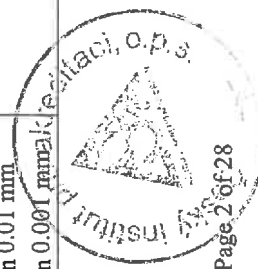
Ord. number ¹	Calibrated quantity / Subject of calibration	Nominal range		Parameter(s) of the meas. quantity	Lowest expanded measurement uncertainty specified ²	Calibration principle	Calibration procedure identification ³	Work-place
		min. unit	max. unit					
1*	Length gauges and rules of measuring instruments	0 mm	to 6000 mm		(0.8·L +0,14) µm	Direct measurement using an interferometer	CI-300.25-015	
2*	Length gauges and measuring instruments	0 mm	to 100 mm		(1.0·L +0,20) µm	Direct measurement using parallel gauge blocks	CI-300.25-028	
3	Parallel gauge blocks	0.5 mm	to 100 mm		(2.0·L +0,10) µm	Direct comparison	CI-300.25-020	
4	Parallel gauge blocks	100 mm	to 500 mm		(3.8·L +0,30) µm	Direct comparison	CI-300.25-503	
5	Slide gauges					Direct measurement of parallel gauge blocks, rings	CI-300.25-021	
		0 mm	to 500 mm	Division 0.05 mm Division 0.02 mm Division 0.01 mm	(1·L +30) µm (1·L +13) µm (1·L +8,5) µm			
		500 mm	to 1475 mm	Division 0.05 mm Division 0.02 mm Division 0.01 mm	(2·L +31) µm (2·L +16) µm (2·L +13) µm	Direct measurement of check gauges, rings		
		1475 mm	to 3,000 mm	Division 0.05 mm	(5·L +32) µm	Direct measurement of micrometer gauges set on a length gauge, rings		



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6	Micrometer calliper gauges			Division 0.02 mm	(6·L +20) μm	Direct measurement of parallel gauge blocks	CI-300.25-022	
				Division 0.01 mm	(8·L +13) μm			
		0 mm	to 3,000 mm	Division 0.10 mm	(1·L +60) μm	Direct measurement of check gauges		
		0 mm	to 200 mm	Division 0.01 mm	(1.8·L +2,5) μm			
				Division 0.001 mm	(2·L +0,9) μm			
		Division 0.01 mm	(2·L +2,8) μm	Direct measurement of micrometer gauges set on a length gauge				
		Division 0.001 mm	(3·L +1,0) μm					
		200 mm	to 1500 mm	Division 0.01 mm	(3·L +2,5) μm	Direct measurement of parallel gauge blocks		
		1500 mm	to 3,000 mm	Division 0.01 mm	(7 L +3) μm			
7	Thickness gauges with dial indicator	0 mm	to 400 mm	Division 1.0 mm	220 μm	Direct measurement of parallel gauge blocks	CI-300.25-027	
				Division 0.1 mm	30 μm			
				Division 0.01 mm	4.5 μm			
				Division 0.001 mm	3.4 μm			



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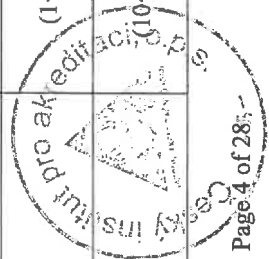
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8	Inside micrometer gauges	20 mm	to 1000 mm	Division 0.01 mm Division 0.001 mm	(2·L + 2.3) µm (2.5·L + 1.2) µm	Direct measurement by a distance meter	CI-300.25-023	
		20 mm	to 5000 mm	Division 0.01 mm Division 0.001 mm	(7·L + 2.7) µm (6·L + 1.6) µm			
9	Rigid check gauges and gauges with mounting	25 mm 1000 mm	to 1000 mm to 2000 mm		(2·L + 0.3) µm (8·L + 0.7) µm	Direct measurement on a length gauge	CI-300.25-030	
10	Limit gauges, smooth	2 mm	to 250 mm		(3·L + 0.5) µm	Direct measurement on a length gauge	CI-300.25-043	
11	Feeler gauges	0.01 mm	to 2 mm		(1·L + 1.3) µm	Direct measurement on a length gauge	CI-300.25-131	
12	Thread gauges – male	2 mm	to 200 mm		2.4 µm	Indirect measurement on a length gauge	CI-300.25-127	
13	Dial indicators	16 mm	to 130 mm		2.5 µm	Direct measurement on an instrument for the calibration of indicators	CI-300.25-046	
		0 mm	to 50 mm	Division 0.001 mm Division 0.01 mm Division 0.1 mm	0.48 µm 2.4 µm 29 µm			



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14	Roughness stylus instruments	0.1 µm	to 800 µm	Roughness Ra	3.5 %	Direct measurement on a roughness standard	CI-300.25-034	
				Roughness Rz	4.3 %			
	Roughness standards	0.1 µm	to 800 µm	Roughness Rz/ISO	4.5 %	Direct measurement on a roughness instrument		
				Roughness Rmax	4.4 %			
				Roughness Rt	4.4 %			
				Roughness Pt	2.4 %			
15	Steel rules	0 m	to 3 m	Roughness Ra	5.2 %	Direct measurement on a standard gauge	CI-300.25-004	
				Roughness Rz	5.5 %			
				Roughness Rz/ISO	5.5 %			
16	Tape measures	0 m	to 10 m	Roughness Rmax	5.5 %	Direct measurement by a laser interferometer	CI-300.25-130	
				Roughness Rt	5.6 %			
					(31·L + 41) µm			
17	Steel gauges, accuracy class 1	0 mm	to 5000 mm		(30·L + 53) µm	Direct measurement on a standard tape measure	CI-300.25-024	
					(2·L + 260) µm			
					(1·L + 10) µm			
	Tape measures	0 m	to 50 m		(10·L + 90) µm			

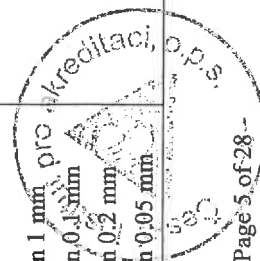


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18	Micrometer depth gauges	0 mm	to 300 mm	Division 0.01 mm	(5·L +2.9) µm	Direct measurement of parallel gauge blocks	CI-300.25-506	
	Depth gauges with dial indicator			Division 0.001 mm	(6·L +0.8) µm			
		0 mm	to 300 mm	Division 0.01 mm	(0.6·L +11.6) µm			
19	Inside calliper gauge	100 mm	to 500 mm	Division 0.01 mm	(3·L +2.5) µm	Direct measurement on a length gauge Direct measurement of check rings	CI-300.25-126	
	Inside micrometer	3 mm	to 200 mm	Division 0.01 mm	(1·L +3.8) µm			
	Inside micrometer	200 mm	to 300 mm	Division 0.01 mm	(2.5·L +4) µm			
	Internal gauge with measuring arms – digital	2.5 mm	to 200 mm	Division 0.001 mm	(1·L +2.4) µm			
				Division 0.01 mm	(1·L +12.2) µm			
	Internal gauge with measuring arms –with dial indicator	2.5 mm	to 200 mm	Division 0.001 mm	(1·L +6.8) µm			
20	Three-contact internal gauge	2 mm	to 200 mm	Division 0.01 mm Division 0.001 mm	(3·L +4) µm (2·L +2.8) µm	Direct measurement of parallel gauge blocks	CI-300.25-084	
	Weld gauges	0 mm	to 100 mm	Division 1 mm Division 0.1 mm	300 µm 24 µm			
				Division 0.2 mm Division 0.05 mm	58 µm 10 µm			



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21	Instruments for thickness measurement of surface layers	0 mm	to 5000 µm		(2.2·1+2.2) µm	Direct measurement of calibration foils	CI-300.25-087	
	Calibration foils	5 mm	to 5000 µm		(0.6·1+0.4) µm	Direct measurement by a length gauge		
22*	Surface / layout plates	250 mm	to 4,000 mm		2M µm	Direct measurement by a laser interferometer	CI-300.25-048	
23	Parameters and micropasameters	0 mm	to 300 mm		(1·L +1.4) µm	Direct measurement of parallel gauge blocks	CI-300.25-510	
24	Thread-measuring wires	0.17 mm	to 10 mm		(1·L +0.22) µm	Direct measurement by a length gauge	CI-300.25-504	

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² The expanded measurement uncertainty is in accordance with ILAC-P14 and EA-4/02, part of CMC, and it is the lowest value of the respective uncertainty. If not stated otherwise, its coverage probability is approx. 95%. If not stated otherwise, the uncertainty values stated without a unit are relative to the value measured. If the calibration is carried out outside the laboratory premises, the measurement uncertainty may be affected.

³ If the document identifying the calibration procedure is dated, only these specific procedures are used. If the document identifying the calibration procedure is not dated, the latest edition of the specified procedure is used (including any changes).

Explanations:

- L ... Measured dimension in metres
l ... Measured dimension in millimetres
M ... diagonal in metres



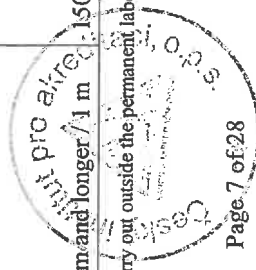
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CMC for the field of measured quantity: Plane angle

Ord. number ¹	Calibrated quantity / Subject of calibration	Nominal range		Parameter(s) of the meas. quantity	Lowest expanded measurement uncertainty specified ²	Calibration principle	Calibration procedure identification ³	Work-place
		min.	max.					
1	Mechanical angle gauges	0 °	to 180 °	Division 60'	40'	Direct measurement on angle gauges	CI-300.25-025	
				Division 30'	20'			
				Division 10'	8.8'			
				Division 5'	4.4'			
2	Optical and digital angle gauges	0 °	to 360 °	Division 1'	0.9'	Direct measurement on an instrument for the calibration of squares	CI-300.25-026	
				Division 10'	8.8'			
				Division 5'	4.4'			
				Division 1'	0.9'			
3	Flat and trying squares, check	32 mm	to 400 mm	0.5 mm and longer / 1 m	(1.4 · L + 5.7) µm/X	Direct measurement on a check plate and of parallel gauge blocks	CI-300.25-501	
		32 mm	to 400 mm		(1.2 · L + 7.4) µm/X			
		32 mm	to 160 mm		11 µm / 160 mm			
		32 mm	to 160 mm		(1.2 · L + 5.2) µm/X			
3	Longitudinal levels	100 mm	to 1 m	0.5 mm and longer / 1 m		Direct measurement on a check plate and of parallel gauge blocks	CI-300.25-501	
		100 mm	to 1 m					

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Explanations:

L ... Measured dimension in metres
X ... related to the longer side of the angle



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CMC for the field of measured quantity: Torque, hardness

Ord. num-ber ¹	Calibrated quantity / Subject of calibration	Nominal range			Parameter(s) of the meas. quantity	Lowest expanded measurement uncertainty specified ²	Calibration principle	Calibration procedure identification ³	Work-place
		min.	unit	max.					
1	Torque / Torque wrenches and screwdrivers	0.2 Nm 8 Nm		to to	10 Nm 30 Nm	1.0 %	Direct measurement on torque calibrating instruments	CI-KMS I-41	
2	Torque / Torque wrenches and screwdrivers	20 Nm 100 Nm 250 Nm		to to to	500 Nm 1000 Nm 5000 Nm	0.7 %			
3	Portable hardness testers	80 HV		to	800 HV	1.6 % 1.6 % 1.6 % 1.6 %	Direct measurement on hardness standards	CI-300.25-051	
		80 HBW		to	660 HBW				
		20 HRC		to	70 HRC				
		350 HLD		to	850 HLD				

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CMC for the field of measured quantity: Pressure

Ord. number ¹	Calibrated quantity / Subject of calibration	Nominal range			Parameter(s) of the meas. quantity	Lowest expanded measurement uncertainty specified ²	Calibration principle	Calibration procedure identification ³	Work-place
		min.	unit	max. unit					
1	Deformation and electromechanical manometers (pressure sensors and transducers, digital manometers)	0 kPa	to	30 kPa	over-pressure	12 Pa	Direct measurement on a standard calibration device	CI-KMS I-21 CI-KMS I-22	
		30 kPa	to	100 kPa		36 Pa			
		0.1 MPa	to	2 MPa		4.2 kPa			
		0.025 MPa	to	0.6 MPa	over-pressure	0.18 kPa 0.03 % 0.05 %			
0.6 MPa	to	6 MPa	liquid						
		6 MPa	to	400 MPa					

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CMC for the field of measured quantity: Temperature

Ord. number ¹	Calibrated quantity / Subject of calibration	Nominal range		Parameter(s) of the meas. quantity	Lowest expanded measurement uncertainty specified ²	Calibration principle	Calibration procedure identification ³	Work-place
		min.	unit max.					
1	Resistance temperature sensors	50 °C 200 °C	to to	0 °C 200 °C 400 °C	0.04 °C 0.15 °C 0.6 °C	Direct measurement with resistance standard in oil bath	CI-KMS I-01	
2	Thermocouple temperature sensors (TC)	50 °C 200 °C 400 °C 1100 °C	to to to to	200 °C 400 °C 1100 °C 1500 °C	0.7 °C 1.0 °C 1.7 °C 3.0 °C	Direct measurement with a thermocouple standard in a calibration furnace	CI-KMS I-02	
3	Radiation thermometers (pyrometers)	50 °C 100 °C 400 °C	to to to	100 °C 400 °C 1500 °C	1.7 °C 3.7 °C 4.0 °C	Direct measurement in a calibration furnace / hollow, target black body	CI-KMS I-04	
4	Direct-indicating thermometers	30 °C	to	500 °C	1.9 °C	Direct measurement in a standard calibration furnace	CI-KMS I-03	

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CMC for the field of measured quantity: Electrical quantities

Ord. number ¹	Calibrated quantity / Subject of calibration	Nominal range		Parameter(s) of the meas. quantity	Lowest expanded measurement uncertainty specified ²	Calibration principle	Calibration procedure identification ³	Work-place
		min. unit	max. unit					
1	Direct-current voltage /voltmeters, multimeters, inspection equipment, el. parts of thermometers, controllers, display units	0 mV	to 20 mV					
		20 mV	to 50 mV					
		50 mV	to 100 mV					
		100 mV	to 200 mV					
		0.2 V	to 0.5 V					
		0.5 V	to 1 V					
		1 V	to 2 V					
		2 V	to 5 V					
		5 V	to 10 V					
		10 V	to 20 V					
		20 V	to 50 V					
		50 V	to 100 V					
		100 V	to 200 V					
		200 V	to 500 V					
		500 V	to 1000 V					
		1000 V	to 1100 V					
					2.7 µV 3.3 µV 4.1 µV 5.9 µV 8.7 µV 14 µV 25 µV 76 µV 0.13 mV 0.22 mV 1.0 mV 1.7 mV 3.2 mV 10 mV 18 mV 81 mV	Comparison with the standard	CI-KMS I-11 CI-KMS I-12 CI-KMS I-13 CI-KMS I-14 CI-KMS I-17	



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2	Alternating-current voltage / voltmeters, multimeters, inspection equipment	1 mV		to 10 mV		10 Hz to 44 Hz 45 Hz to 1 kHz 1 kHz to 20 kHz 20 kHz to 100 kHz	28 μ V 21 μ V 43 μ V 68 μ V	Comparison with the standard CI-KMS I-11 CI-KMS I-12 CI-KMS I-13 CI-KMS I-17
		10 mV		to 20 mV		10 Hz to 44 Hz 45 Hz to 1 kHz 1 kHz to 20 kHz 20 kHz to 100 kHz	37 μ V 23 μ V 45 μ V 78 μ V	
		20 mV		to 50 mV		10 Hz to 44 Hz 45 Hz to 1 kHz 1 kHz to 20 kHz 20 kHz to 100 kHz	67 μ V 33 μ V 60 μ V 0.14 mV	
		50 mV		to 100 mV		10 Hz to 44 Hz 45 Hz to 1 kHz 1 kHz to 20 kHz 20 kHz to 100 kHz	0.12 mV 41 μ V 69 μ V 0.19 mV	
		100 mV		to 200 mV		10 Hz to 44 Hz 45 Hz to 1 kHz 1 kHz to 20 kHz 20 kHz to 100 kHz	0.21 mV 64 μ V 0.11 mV 0.33 mV	
		0.2 V		to 0.5 V		10 Hz to 44 Hz 45 Hz to 1 kHz 1 kHz to 20 kHz 20 kHz to 100 kHz	0.52 mV 0.26 mV 0.78 mV 1.0 mV	

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	0.5 V		to	1 V	10 Hz to 44 Hz 45 Hz to 1 kHz 1 kHz to 20 kHz 20 kHz to 100 kHz	0.8 mV 0.34 mV 0.84 mV 1.3 mV			
	1 V		to	2 V	10 Hz to 44 Hz 45 Hz to 1 kHz 1 kHz to 20 kHz 20 kHz to 100 kHz	1.4 mV 0.55 mV 1.4 mV 2.2 mV			
	2 V		to	5 V	10 Hz to 44 Hz 45 Hz to 1 kHz 1 kHz to 20 kHz 20 kHz to 100 kHz	4.9 mV 2.4 mV 3.9 mV 9.9 mV			
	5 V		to	10 V	10 Hz to 44 Hz 45 Hz to 1 kHz 1 kHz to 20 kHz 20 kHz to 100 kHz	7.8 mV 3.2 mV 5.0 mV 13 mV			
	10 V		to	20 V	10 Hz to 44 Hz 45 Hz to 1 kHz 1 kHz to 20 kHz 20 kHz to 100 kHz	14 mV 5.2 mV 8.0 mV 21 mV			
	20 V		to	50 V	30 Hz to 44 Hz 45 Hz to 1 kHz 1 kHz to 10 kHz 10 kHz to 40 kHz	54 mV 26 mV 32 mV 58 mV			



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3	Direct current /ammeters, multimeters, inspection equipment, tong-test meters, el. parts of thermometers, controllers, display units	50 V	to 100 V	30 Hz to 44 Hz 45 Hz to 1 kHz 1 kHz to 10 kHz 10 kHz to 40 kHz	82 mV 34 mV 43 mV 74 mV	Comparison with the standard	CI-KMS I-11 CI-KMS I-12 CI-KMS I-13 CI-KMS I-14 CI-KMS I-16 CI-KMS I-17	
		100 V	to 200 V	30 Hz to 44 Hz 45 Hz to 1 kHz 1 kHz to 10 kHz 10 kHz to 40 kHz	0.14 V 53 mV 68 mV 0.12 V			
		200 V	to 500 V	30 Hz to 44 Hz 45 Hz to 1 kHz 1 kHz to 10 kHz	0.58 V 0.24 V 0.32 V			
		500 V	to 1000 V	30 Hz to 44 Hz 45 Hz to 1 kHz 1 kHz to 10 kHz	0.90 V 0.44 V 0.54 V			
		1000 V	to 1100 V	50 Hz to 1 kHz	0.80 V			
		0 µA	to 100 µA		24 nA			
		100 µA	to 200 µA		35 nA			
		0.2 mA	to 0.5 mA		64 nA			
		0.5 mA	to 1 mA		94 nA			
		1 mA	to 2 mA		0.16 µA			
		2 mA	to 5 mA		0.52 µA			



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4	Alternating current / ammeters, multimeters, inspection equipment, tong-test meters	5 mA	to 10 mA	Using current coils	0.83 µA	Comparison with the standard	CI-KMS I-16 CI-KMS I-11 CI-KMS I-12 CI-KMS I-13 CI-KMS I-16 CI-KMS I-17	
		10 mA	to 20 mA		1.5 µA			
		20 mA	to 50 mA		6.0 µA			
		50 mA	to 100 mA		8.6 µA			
		100 mA	to 200 mA		15 µA			
		0.2 A	to 0.5 A		0.12 mA			
		0.5 A	to 1 A		0.19 mA			
		1 A	to 2 A		0.35 mA			
		2 A	to 5 A		2.3 mA			
		5 A	to 10 A		3.9 mA			
		10 A	to 20 A		7.5 mA			
		20 A	to 30 A		18 mA			
		30 A	to 1500 A		1.0 %			
		20 µA	to 50 µA	10 Hz to 44 Hz 45 Hz to 1 kHz 1 kHz to 10 kHz	0.41 µA 0.22 µA 0.76 µA			
		50 µA	to 100 µA	10 Hz to 44 Hz 45 Hz to 1 kHz 1 kHz to 10 kHz	0.53 µA 0.26 µA 1.30 µA			
		100 µA	to 200 µA	10 Hz to 44 Hz 45 Hz to 1 kHz 1 kHz to 10 kHz	0.76 µA 0.35 µA 2.20 µA			

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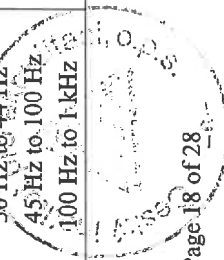
Ord. num- ber ¹	Calibrated quantity / Subject of calibration		Nominal range		Parameter(s) of the meas. quantity	Lowest expanded measurement uncertainty specified ²	Calibration principle	Calibration procedure identification ³	Work- place
	min.	unit	max.	unit					
	0.2 mA		to 0.5 mA		10 Hz to 44 Hz 45 Hz to 1 kHz 1 kHz to 10 kHz	1.50 µA 0.66 µA 3.30 µA			
	0.5 mA		to 1 mA		10 Hz to 44 Hz 45 Hz to 1 kHz 1 kHz to 10 kHz	2.70 µA 0.98 µA 6.20 µA			
	1 mA		to 2 mA		10 Hz to 44 Hz 45 Hz to 1 kHz 1 kHz to 10 kHz	5.0 µA 1.7 µA 12 µA			
	2 mA		to 5 mA		10 Hz to 44 Hz 45 Hz to 1 kHz 1 kHz to 10 kHz	16 µA 5.4 µA 19 µA			
	5 mA		to 10 mA		10 Hz to 44 Hz 45 Hz to 1 kHz 1 kHz to 10 kHz	27 µA 7.5 µA 33 µA			
	10 mA		to 20 mA		10 Hz to 44 Hz 45 Hz to 1 kHz 1 kHz to 10 kHz	50 µA 13 µA 62 µA			
	20 mA		to 50 mA		10 Hz to 44 Hz 45 Hz to 1 kHz 1 kHz to 10 kHz	0.16 mA 54 µA 0.34 mA			
	50 mA		to 100 mA		10 Hz to 44 Hz 45 Hz to 1 kHz 1 kHz to 10 kHz	0.27 mA 76 µA 0.63 mA			

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	min.	unit	max.	unit					
	100 mA		to	200 mA	10 Hz to 44 Hz 45 Hz to 1 kHz 1 kHz to 10 kHz	0.50 mA 0.13 mA 1.2 mA			
	0.2 A		to	0.5 A	10 Hz to 44 Hz 45 Hz to 1 kHz 1 kHz to 10 kHz	1.6 mA 0.76 mA 3.4 mA			
	0.5 A		to	1 A	10 Hz to 44 Hz 45 Hz to 1 kHz 1 kHz to 10 kHz	2.7 mA 1.1 mA 6.3 mA			
	1 A		to	2 A	10 Hz to 44 Hz 45 Hz to 1 kHz 1 kHz to 10 kHz	5.1 mA 1.9 mA 12 mA			
	2 A		to	5 A	30 Hz to 44 Hz 45 Hz to 100 Hz 100 Hz to 1 kHz	16 mA 8.7 mA 23 mA			
	5 A		to	10 A	30 Hz to 44 Hz 45 Hz to 100 Hz 100 Hz to 1 kHz	27 mA 13 mA 40 mA			
	10 A		to	20 A	30 Hz to 44 Hz 45 Hz to 100 Hz 100 Hz to 1 kHz	51 mA 23 mA 75 mA			
	20 A		to	30 A	30 Hz to 44 Hz 45 Hz to 100 Hz 100 Hz to 1 kHz	75 mA 32 mA 0.11 mA			



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		min. unit	max. unit						
5	DC resistance / multimeters, inspection equipment, ohmmeters, resistance boxes, DC resistors	30 A	to 1500 A	30 Hz to 60 Hz Using current coils	1.0 %		CI-KMS I-16		
6	Direct-current voltage / electrical parts of temperature simulators	0 mV 50 mV	to 50 mV to 100 mV		6.4 μV 8.5 μV	Comparison with the standard	CI-KMS I-14		

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		min.	unit	max.	unit				
		0.1 V		to 0.5 V		24 μ V			
		0.5 V		to 1 V		38 μ V			
		1 V		to 5 V		0.20 mV			
		5 V		to 10 V		0.35 mV			
		10 V		to 50 V		3.0 mV			
		50 V		to 100 V		5.2 mV			
		100 V		to 500 V		36 mV			
		500 V		to 1000 V		60 mV			
7	Alternating-current voltage / inspection equipment	1 mV		to 50 mV	10 Hz to 20 kHz	89 μ V	Comparison with the standard	CI-KMS I-14 CI-KMS I-17	
					20 kHz to 50 kHz	0.13 mV			
					50 kHz to 100 kHz	0.45 mV			
		50 mV		to 100 mV	10 Hz to 20 kHz	0.12 mV			
					20 kHz to 50 kHz	0.20 mV			
					50 kHz to 100 kHz	0.79 mV			
		0.1 V		to 0.5 V	10 Hz to 20 kHz	0.70 mV			
					20 kHz to 50 kHz	1.3 mV			
					50 kHz to 100 kHz	4.4 mV			
		0.5 V		to 1 V	10 Hz to 20 kHz	1.1 mV			
					20 kHz to 50 kHz	2.0 mV			
					50 kHz to 100 kHz	7.9 mV			
		1 V		to 5 V	10 Hz to 20 kHz	7.0 mV			
					20 kHz to 50 kHz	13 mV			
					50 kHz to 100 kHz	44 mV			

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		min. unit	max. unit					
8	Direct current /electrical parts of temperature simulators	5 V	to 10 V	10 Hz to 20 kHz 20 kHz to 50 kHz 50 kHz to 100 kHz	11 mV 20 mV 79 mV	Comparison with the standard	CL-KMS I-14	
		10 V	to 50 V	10 Hz to 20 kHz 20 kHz to 50 kHz 50 kHz to 100 kHz	70 mV 0.13 V 0.44 V			
		50 V	to 100 V	10 Hz to 20 kHz 20 kHz to 50 kHz 50 kHz to 100 kHz	0.11 V 0.20 V 0.80 V			
		100 V	to 500 V	10 Hz to 20 kHz	0.63 V			
		500 V	to 1000 V	10 Hz to 20 kHz	1.3 V			
		500 V	to 750 V	20 kHz to 50 kHz	1.5 V			
		0 µA	to 50 µA		59 nA			
		50 µA	to 100 µA		88 nA			
		0.1 mA	to 0.5 mA		0.35 µA			
		0.5 mA	to 1 mA		0.64 µA			
		1 mA	to 5 mA		5.3 µA			
		5 mA	to 10 mA		8.2 µA			
		10 mA	to 50 mA		35 µA			
		50 mA	to 100 mA		64 µA			
		100 mA	to 200 mA		0.15 mA			
		200 mA	to 400 mA		0.26 mA			
		0.4 A	to 0.5 A		0.54 mA			



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		min. unit	max. unit					
9	Alternating current / inspection equipment	0.5 A	to 1 A	10 Hz to 5 kHz 5 kHz to 10 kHz	0.82 mA	Comparison with the standard	CI-KMS I-14	
		1 A	to 1.5 A		2.9 mA			
		1.5 A	to 3 A		4.5 mA			
		3 A	to 5 A		11 mA			
		5 A	to 10 A		19 mA			
		5 µA	to 50 µA	10 Hz to 5 kHz 5 kHz to 10 kHz	0.16 µA	Comparison with the standard	CI-KMS I-14	
		50 µA	to 100 µA		0.33 µA			
		0.1 mA	to 0.5 mA		0.25 µA			
		0.5 mA	to 1 mA		0.52 µA			
		1 mA	to 5 mA		1.1 µA			
		5 mA	to 10 mA	10 Hz to 5 kHz 5 kHz to 10 kHz	4.5 µA	Comparison with the standard	CI-KMS I-14	
		10 mA	to 50 mA		1.7 µA			
		50 mA	to 100 mA		5.5 µA			
		100 mA	to 200 mA		16 µA			
					0.11 mA			
				10 Hz to 5 kHz 5 kHz to 10 kHz	25 µA	Comparison with the standard	CI-KMS I-14	
					0.12 mA			
					0.11 mA			
					0.43 mA			
					0.17 mA			
				10 Hz to 5 kHz 5 kHz to 10 kHz	0.54 mA	Comparison with the standard	CI-KMS I-14	
					0.75 mA			
				5 kHz to 10 kHz	4.8 mA			

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		min. unit	max. unit					
10	DC resistance / ohmmeters, resistance boxes, DC resistors, electrical parts of temperature simulators	200 mA	to 400 mA	10 Hz to 5 kHz 5 kHz to 10 kHz	0.96 mA 5.1 mA	Comparison with the standard	CI-KMS I-14 CI-KMS I-15	
		0.4 A	to 0.5 A	10 Hz to 5 kHz 5 kHz to 10 kHz	1.2 mA 12 mA			
		0.5 A	to 1 A	10 Hz to 5 kHz 5 kHz to 10 kHz	1.7 mA 13 mA			
		1 A	to 1.5 A	10 Hz to 5 kHz 5 kHz to 10 kHz	5.7 mA 33 mA			
		1.5 A	to 3 A	10 Hz to 5 kHz 5 kHz to 10 kHz	8.0 mA 39 mA			
		3 A	to 5 A	10 Hz to 5 kHz 5 kHz to 10 kHz	19 mA 0.11 mA			
		5 A	to 10 A	10 Hz to 5 kHz 5 kHz to 10 kHz	27 mA 0.13 A			
		0 Ω	to 0 Ω		0.13 mΩ			
		5 Ω	to 5 Ω		4.1 mΩ			
		10 Ω	to 10 Ω		4.7 mΩ			
		50 Ω	to 50 Ω		11 mΩ			
		100 Ω	to 100 Ω		17 mΩ			
		500 Ω	to 500 Ω		70 mΩ			
		1 kΩ	to 1000 Ω		0.13 Ω			
			to 5 kΩ		0.70 Ω			

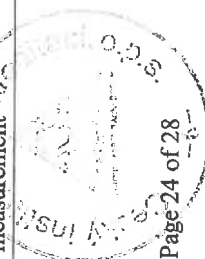


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		min.	unit	max.	unit				
11*		5 kΩ		to	10 kΩ	1.3 Ω			
		10 kΩ		to	50 kΩ	7.1 Ω			
		50 kΩ		to	100 kΩ	13 Ω			
		0.1 MΩ		to	0.5 MΩ	73 Ω			
		0.5 MΩ		to	1 MΩ	0.13 kΩ			
		1 MΩ		to	5 MΩ	2.5 kΩ	Comparison with the standard	CI-KMS I-11 CI-KMS I-12 CI-KMS I-14	
		5 MΩ		to	10 MΩ	4.8 kΩ			
		10 MΩ		to	50 MΩ	0.48 MΩ			
		50 MΩ		to	100 MΩ	0.94 MΩ			
		0.1 GΩ		to	1 GΩ	24 MΩ			
	Simulation and measurement of output signals of transducers:								
	Direct current	0 mA		to	25 mA	0.020 % + 1.5 μA			
	Direct-current voltage	-3 V		to	+12 V	0.020 % + 0.1 mV			
	Direct current	-100 mA		to	+100 mA	0.020 % + 1.5 μA			
	Direct-current voltage	-1 V		to	+1 V	0.020 % + 5 μV			
		1 V		to	60 V	0.020 % + 0.25 mV			
	Simulation and measurement of mV (T/C terminals)	-25 mV		to	+150 mV	0.020 % + 4 μV			
	Resistance	0 Ω		to	4,000 Ω	0.040 % + 30 mΩ			
	Resistance	0 Ω		to	4,000 Ω	0.020 % + 3.5 mΩ			



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		min.	max.					
12*	Temperature measuring chains by electrical signal simulation:			generation and measurement		Comparison with the standard	CI-KMS I-14	
	Thermocouples: Type K	-200 °C	to 1000 °C		0.3 °C			
		1000 °C	to 1372 °C		0.4 °C			
	Thermocouples: Type J	-210 °C	to 1200 °C		0.3 °C			
	Thermocouples: Type N	-200 °C	to 1300 °C		0.4 °C			
	Thermocouples: Type S	-50 °C	to 0 °C		1.0 °C			
		0 °C	to 1768 °C		0.7 °C			
13	Thermocouples: Type B	400 °C	to 1820 °C		1.0 °C			
	Pt resistance temperature sensors	-200 °C	to +200 °C	measurement	0.1 °C			
		200 °C	to 600 °C		0.2 °C			
		600 °C	to 850 °C		0.3 °C			
	Pt resistance temperature sensors	-200 °C	to +200 °C	generation	0.15 °C			
		200 °C	to 600 °C		0.25 °C			
		600 °C	to 850 °C		0.35 °C			
	Quantities measured or generated by digital electrical inspection equipment:					Comparison with the standard	CI-KMS I-17	
	Insulation resistance	10 kΩ	to 999.9 kΩ	generation	0.20 %			
		1 MΩ	to 9.999 MΩ		0.30 %			
		10 MΩ	to 999.9 MΩ		0.50 %			
		1 GΩ	to 10 GΩ		1.0 %			
			100 GΩ		3.0 % MΩ			



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		min.	unit	max. unit					
	Ground fault resistance, loop/network impedance			25 mΩ		5.0 mΩ			
				50 mΩ		5.0 mΩ			
				100 mΩ		5.0 mΩ			
				330 mΩ		7.0 mΩ			
				500 mΩ		8.0 mΩ			
				1 Ω		10 mΩ			
				1.8 Ω		18 mΩ			
				5 Ω		30 mΩ			
				10 Ω		60 mΩ			
				18 Ω		0.10 Ω			
				50 Ω		0.30 Ω			
				100 Ω		0.50 Ω			
				180 Ω		1.0 Ω			
				500 Ω		2.5 Ω			
				1 kΩ		5.0 Ω			
				1.8 kΩ		10 Ω			
	Leakage current	0.1 mA		30 mA	50 Hz	0.30 % + 2 μA			
	Residual current circuit breakers:				50 Hz				
	Breaking current	3 mA	to	3,000 mA	Mode 0.5 × I and 1 × I	1.0 %			
		3 mA	to	1500 mA	Mode 1.4 × I and 2 × I	2.0 %			
		3 mA	to	600 mA	Mode 5 × I	5.0 %			
	Breaking time	10 ms	to	5000 ms		0.020 % + 0.25 ms			
	Contact voltage	0 V	to	250 V		5.0 % + 3 V			

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		min.	max.	unit				
14	Multimeter:							
	Direct-current voltage	100 V 1000 V 10 kV	to to to	1100 V 10 kV 20 kV	0.20 % + 0.55 V 0.30 % + 5 V 0.50 % + 10 V			
	Alternating-current	100 V 1000 V 10 kV	to to to	1100 V 10 kVp-p 20 kV	0.20 % + 0.55 V 0.50 % + 5 V 0.50 % + 10 V			
	Direct current	3 A 3 A	to to	30 A 30 A	0.35 % + 15 mA 0.35 % + 15 mA			
	Alternating current							
	Ultrasonic defectoscopes / quantities:					Comparison with the standard	CI-KMS I-18	
	Stability (instability) - measurement of amplitude	1 % SH	to	100 % SH	1.8 %			
	Stability (instability) - measurement of position	1 % SW	to	100 % SW	1.7 %			
	Measurement of transmitting pulse voltage and tail	1 V	to	500 V	5.3 %			
	Measurement of transmitting pulse rise time and duration	1 ns	to	500 ns	3.7 % + 2.2 ns			
	Receiver frequency:							
	Upper and lower limit frequency	0.2MHz	to	20 MHz	3.3 %			
	Medium frequency	0.2MHz	to	20 MHz	4.7 %			
	Bandwidth	0.2MHz	to	20 MHz	4.7 %			

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		min.	unit	max.	unit			
	Equivalent input noise	0 V / $\sqrt{\text{Hz}}$		to <100 V / $\sqrt{\text{Hz}}$				
	Attenuator accuracy	1 dB		to 100 dB	4.3 %			
	Display unit vertical linearity	1 dB		to 100 dB	1.7 % + 0.15 dB			
	Time base linearity for digital devices	0.5 μs		to 2,500 μs	2.7 %			
					+ 0.3 1.2 % μs			

¹ Asterisk at the ordinal number identifies the calibrations, which the Laboratory is qualified to carry out outside the permanent laboratory premises.

² The expanded measurement uncertainty is in accordance with ILAC-P14 and EA-4/02, part of CMC, and it is the lowest value of the respective uncertainty. If not stated otherwise, its coverage probability is approx. 95%. If not stated otherwise, the uncertainty values stated without a unit are relative to the value measured. If the calibration is carried out outside the laboratory premises, the measurement uncertainty may be affected.

³ If the document identifying the calibration procedure is dated, only these specific procedures are used. If the document identifying the calibration procedure is not dated, the latest edition of the specified procedure is used (including any changes).

Explanations:

SH... Screen Height
SW... Screen Width

