



SCS Directory

Accreditation number: SCS 0155

International standard: ISO/IEC 17025:2017
Swiss standard: SN EN ISO/IEC 17025:2018

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	Initial accreditation:	04.02.2020
	Current accreditation:	04.02.2020 to 03.02.2025
Scope of accreditation see:	www.sas.admin.ch (Accredited bodies)	

Scope of accreditation as of 04.10.2023

Calibration laboratory for electrical quantities, temperature, relative humidity, pressure, flow, rotational speed, length, torque, mass, time and frequency

Calibration and Measurement Capability (CMC)

Measured Quantity/ Instrument or Gauge	Measurement Range	Measurement Conditions	Best Measurement Uncertainty \pm ¹⁾	Remarks
ELECTRICAL MEASUREMENT		LABORATORY AND ONSITE²⁾		
²⁾ WITH HIGHER MEASUREMENT UNCERTAINTY				
DC voltage	0 V		1 μ V	U = measured value Fluke 5720A m
	0,01 V ... 0,22 V		$7,6 \cdot 10^{-6} U + 1,2 \mu$ V	
	>0,22 V ... 2,2 V		$5,0 \cdot 10^{-6} U + 1,4 \mu$ V	
	>2,2 V ... 11 V		$4,7 \cdot 10^{-6} U$	
	>11 V ... 22 V		$3,9 \cdot 10^{-6} U$	
	>22 V ... 220 V		$6,8 \cdot 10^{-6} U$	
	>220 V ... 1000 V		$8,4 \cdot 10^{-6} U$	



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Measured Quantity/ Instrument or Gauge	Measurement Range	Measurement Conditions	Best Measurement Uncertainty \pm ¹⁾	Remarks	
DC voltage sources	0 V		1 μ V	U = measured value HP 3458A	
	1 mV ... 100 mV		$6,7 \cdot 10^{-6} U + 1,2 \mu$ V		
	>100 mV ... 1 V		$7,9 \cdot 10^{-6} U$		
	>1 V ... 10 V		$5,8 \cdot 10^{-6} U$		
	>10 V ... 100 V		$9,0 \cdot 10^{-6} U$		
	>100 V ... 1000 V		$11 \cdot 10^{-6} U$		
DC current	0 A		0,2 nA	I = measured value Fluke 5720A	
	10 μ A ... 220 μ A		$41 \cdot 10^{-6} I + 6$ nA		
	>220 μ A ... 2,2 mA		$36 \cdot 10^{-6} I + 7$ nA		
	>2,2 mA ... 22 mA		$54 \cdot 10^{-6} I$		
	>22 mA ... 220 mA		$77 \cdot 10^{-6} I$		
	>220 mA ... 1 A		$0,13 \cdot 10^{-3} I$		
	>1 A ... 2,2 A		$92 \cdot 10^{-6} I$		
	>2,2 A ... 3 A		$0,29 \cdot 10^{-3} I$		Fluke 5520A/5522A
	>3 A ... 11 A		$0,52 \cdot 10^{-3} I$		
	>11 A ... 20 A		$0,34 \cdot 10^{-3} I$		Fluke 5720A mit Fluke 5220A
DC current sources	0 A		0,2 nA	I = measured value HP 3458A	
	0,1 μ A ... 1 μ A		$0,29 \cdot 10^{-3} I$		
	>1 μ A ... 10 μ A		$80 \cdot 10^{-6} I$		
	>10 μ A ... 100 μ A		$67 \cdot 10^{-6} I$		
	>100 μ A ... 10 mA		$47 \cdot 10^{-6} I$		
	>10 mA ... 100 mA		$57 \cdot 10^{-6} I$		
	>100 mA ... 1 A		$0,14 \cdot 10^{-3} I$		
	>1 A ... 10 A		$60 \cdot 10^{-6} I$		I = measured value voltage over normal resistance



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DC current sources	>10 A ... 100 A		$0,16 \cdot 10^{-3} /$	
	>100 A ... 200 A		$1,2 \cdot 10^{-3} /$	
DC current clamps	>20 A ... 1000 A		$1,2 \cdot 10^{-3} /$	<i>I</i> = measured value
DC resistance	0 Ω		40 $\mu\Omega$	<i>R</i> = measured value Fluke 5720A
	1 Ω ; 1,9 Ω		$95 \cdot 10^{-6} R$	
	10 Ω ; 19 Ω		$23 \cdot 10^{-6} R$	
	100 Ω ; 190 Ω		$10 \cdot 10^{-6} R$	
	1 k Ω		$8,5 \cdot 10^{-6} R$	
	1,9 k Ω		$8,7 \cdot 10^{-6} R$	
	10 k Ω ; 19 k Ω		$8,5 \cdot 10^{-6} R$	
	100 k Ω ; 190 k Ω		$11 \cdot 10^{-6} R$	
	1 M Ω		$20 \cdot 10^{-6} R$	
	1,9 M Ω		$22 \cdot 10^{-6} R$	
	10 M Ω		$40 \cdot 10^{-6} R$	
	19 M Ω		$47 \cdot 10^{-6} R$	
	100 M Ω		$0,11 \cdot 10^{-3} R$	
DC resistance	0,001 Ω ... <0,01 Ω	Normalwiderstand 0,001 Ω	$24 \cdot 10^{-3} R$	Substitution over normal resistance
	0,01 Ω ... <0,1 Ω	Normalwiderstand 0,01 Ω	$0,17 \cdot 10^{-3} R$	
	0,1 Ω ... <1 Ω	Normalwiderstand 0,1 Ω	$70 \cdot 10^{-6} R$	
	0 Ω		0,10 m Ω	<i>R</i> = measured value HP 3458A
	1 Ω ... 10 Ω		$13 \cdot 10^{-6} R + 35 \mu\Omega$	
	>10 Ω ... 100 Ω		$8,2 \cdot 10^{-6} R + 0,33$ m Ω	
	>100 Ω ... 100 k Ω		$10 \cdot 10^{-6} R$	
>100 k Ω ... 1 M Ω		$23 \cdot 10^{-6} R$		



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DC resistance DC resistance (ranges) measuring devices	>1 M Ω ... 10 M Ω		$0,10 \cdot 10^{-3} R$	R = measured value Fluke 5520A/5522A
	>10 M Ω ... 100 M Ω		$0,40 \cdot 10^{-3} R$	
	>100 M Ω ... 1 G Ω		$3,4 \cdot 10^{-3} R$	
	1 Ω ... <11 Ω		$33 \cdot 10^{-6} R + 0,78\text{m}\Omega$	
	11 Ω ... <33 Ω		$25 \cdot 10^{-6} R + 1,2\text{m}\Omega$	
	33 Ω ... <110 Ω		$23 \cdot 10^{-6} R + 1,1\text{m}\Omega$	
	110 Ω ... <330 Ω		$23 \cdot 10^{-6} R + 1,6\text{m}\Omega$	
	330 Ω ... <1.1 k Ω		$23 \cdot 10^{-6} R + 1,7\text{m}\Omega$	
	1,1 k Ω ... <3,3 k Ω		$23 \cdot 10^{-6} R + 16\text{m}\Omega$	
	3,3 k Ω ... <11 k Ω		$23 \cdot 10^{-6} R + 17\text{m}\Omega$	
	11 k Ω ... <33 k Ω		$23 \cdot 10^{-6} R + 0,16\Omega$	
	33 k Ω ... <110 k Ω		$23 \cdot 10^{-6} R + 0,17\Omega$	
	110 k Ω ... <330 k Ω		$26 \cdot 10^{-6} R + 1,6\Omega$	
	330 k Ω ... <1,1M Ω		$26 \cdot 10^{-6} R + 1,7\Omega$	
	1,1 M Ω ... <3,3 M Ω		$71 \cdot 10^{-6} R$	
	3,3 M Ω ... <11 M Ω		$0,11 \cdot 10^{-3} R$	
	11 M Ω ... <33 M Ω		$0,37 \cdot 10^{-3} R$	
33 M Ω ... <110 M Ω		$0,40 \cdot 10^{-3} R$		
110 M Ω ... <330 M Ω		$3,0 \cdot 10^{-3} R$		
330 M Ω ... <1,1 G Ω		$13 \cdot 10^{-3} R$		
AC voltage	0,01 V ... 0,022 V	10 Hz ... 40 Hz	$0,64 \cdot 10^{-3} U$	U =measured value Fluke 5720A
		>40 Hz ... 20 kHz	$0,48 \cdot 10^{-3} U$	
		>20 kHz ... 50 kHz	$0,60 \cdot 10^{-3} U$	
		>50 kHz ... 100 kHz	$1,0 \cdot 10^{-3} U$	
		>100 kHz ... 300 kHz	$2,1 \cdot 10^{-3} U$	
		>300 kHz ... 500 kHz	$3,4 \cdot 10^{-3} U$	

1) The given extended measurement uncertainty is the standard uncertainty of the measurement multiplied by an extension factor k = 2, which corresponds to a confidence level of about 95% for a normal distribution.



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AC voltage	>0,022 V ... 0,22 V	>500 kHz ... 1 MHz	$4,7 \cdot 10^{-3} U$		
		10 Hz ... 40 Hz	$0,79 \cdot 10^{-3} U$		
		>40 Hz ... 20 kHz	$0,40 \cdot 10^{-3} U$		
		>20 kHz ... 50 kHz	$0,52 \cdot 10^{-3} U$		
		>50 kHz ... 100 kHz	$1,2 \cdot 10^{-3} U$		
		>100 kHz ... 300 kHz	$1,8 \cdot 10^{-3} U$		
		>300 kHz ... 500 kHz	$2,5 \cdot 10^{-3} U$		
		>500 kHz ... 1 MHz	$4,7 \cdot 10^{-3} U$		
	>0,22 V ... 2,2 V	10 Hz ... 40 Hz	$0,42 \cdot 10^{-3} U$		
		>40 Hz ... 20 kHz	$83 \cdot 10^{-6} U$		
		>20 kHz ... 50 kHz	$0,12 \cdot 10^{-3} U$		
		>50 kHz ... 100 kHz	$0,25 \cdot 10^{-3} U$		
		>100 kHz ... 300 kHz	$0,78 \cdot 10^{-3} U$		
		>300 kHz ... 500 kHz	$1,9 \cdot 10^{-3} U$		
		>500 kHz ... 1 MHz	$3,1 \cdot 10^{-3} U$		
		>2,2 V ... 22 V	10 Hz ... 40 Hz	$0,42 \cdot 10^{-3} U$	
	>2,2 V ... 22 V	>40 Hz ... 20 kHz	$71 \cdot 10^{-6} U$		
		>20 kHz ... 50 kHz	$0,12 \cdot 10^{-3} U$		
		>50 kHz ... 100 kHz	$0,19 \cdot 10^{-3} U$		
		>100 kHz ... 300 kHz	$0,55 \cdot 10^{-3} U$		
		>300 kHz ... 500 kHz	$1,9 \cdot 10^{-3} U$		
		>500 kHz ... 1 MHz	$3,0 \cdot 10^{-3} U$		
		>22 V ... 220 V	10 Hz ... 40 Hz	$0,42 \cdot 10^{-3} U$	
		>22 V ... 220 V	>40 Hz ... 20 kHz	$82 \cdot 10^{-6} U$	
>20 kHz ... 50 kHz	$0,13 \cdot 10^{-3} U$				
>50 kHz ... 100kHz	$0,27 \cdot 10^{-3} U$				
>220 V ... 1000 V	>50 Hz ... 1 kHz		$95 \cdot 10^{-6} U$		



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AC voltage source	0,01 V ... 0,1 V	40 Hz ... 1 kHz	$0,20 \cdot 10^{-3} U$	U = measured value HP 3458A		
		>1 kHz ... 20 kHz	$0,24 \cdot 10^{-3} U$			
		>20 kHz ... 50 kHz	$0,34 \cdot 10^{-3} U$			
	>0,1 V ... 10 V	40 Hz ... 1 kHz	$0,18 \cdot 10^{-3} U$			
		>1 kHz ... 20 kHz	$0,23 \cdot 10^{-3} U$			
		>20 kHz ... 50 kHz	$0,33 \cdot 10^{-3} U$			
	>10 V ... 100 V	40 Hz ... 1 kHz	$0,27 \cdot 10^{-3} U$			
		>1 kHz ... 20 kHz	$0,27 \cdot 10^{-3} U$			
		>20 kHz ... 50 kHz	$0,37 \cdot 10^{-3} U$			
	>100 V ... 700 V	40 Hz ... 1 kHz	$0,41 \cdot 10^{-3} U$			
		>1 kHz ... 20 kHz	$0,27 \cdot 10^{-3} U$			
		>20 kHz ... 50 kHz	$0,37 \cdot 10^{-3} U$			
AC current	0,1 mA ... 0,22 mA	10 Hz ... 40 Hz	$0,42 \cdot 10^{-3} I$	I = measured value Fluke 5720A		
		>40 Hz ... 1 kHz	$0,20 \cdot 10^{-3} I$			
		>1 kHz ... 5 kHz	$0,40 \cdot 10^{-3} I$			
	0,1mA ... 330 μ A	>5 kHz ... 10 kHz	$1,8 \cdot 10^{-3} I$			
		>10 kHz ... 30 kHz	$23 \cdot 10^{-3} I$		I = Measured value Fluke 5520A/5522A	
		>0,22mA ... 2,2 mA	10 Hz ... 40 Hz		$0,44 \cdot 10^{-3} I$	I = Measured value Fluke 5720A
	>40 Hz ... 1 kHz	>40 Hz ... 1 kHz	$0,28 \cdot 10^{-3} I$			
		>1 kHz ... 5 kHz	$0,70 \cdot 10^{-3} I$			
		>5 kHz ... 10 kHz	$4,1 \cdot 10^{-3} I$			
	>0,33mA ... 3,3 mA	>10 kHz ... 30 kHz	$9,2 \cdot 10^{-3} I$		I = measured value Fluke 5520A/5522A	
		>2,2mA ... 22 mA	10 Hz ... 40 Hz		$0,43 \cdot 10^{-3} I$	I = measured value Fluke 5720A
		>40 Hz ... 1 kHz	$0,28 \cdot 10^{-3} I$			
>1 kHz ... 5 kHz	>1 kHz ... 5 kHz	$0,45 \cdot 10^{-3} I$				
	>5 kHz ... 10 kHz	$3,4 \cdot 10^{-3} I$				
	>5 kHz ... 10 kHz	$3,4 \cdot 10^{-3} I$				



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AC current	>3,3mA ... 33 mA	>10 kHz ... 30 kHz	$4,0 \cdot 10^{-3} /$	/ = measured value Fluke 5520A/5522A
	>22mA ... 220 mA	10 Hz ... 40 Hz	$0,43 \cdot 10^{-3} /$	/ = measured value Fluke 5720A
		>40 Hz ... 1 kHz	$0,24 \cdot 10^{-3} /$	
		>1 kHz ... 5 kHz	$0,36 \cdot 10^{-3} /$	
		>5 kHz ... 10 kHz	$1,6 \cdot 10^{-3} /$	
	>33mA ... 330 mA	>10 kHz ... 30 kHz	$7,8 \cdot 10^{-3} /$	/ = measured value Fluke 5520A/5522A
	>220 mA ... 2,2 A	20 Hz ... 1 kHz	$0,42 \cdot 10^{-3} /$	/ = measured value Fluke 5720A with 5220A
		>1 kHz ... 5 kHz	$0,81 \cdot 10^{-3} /$	
		>5 kHz ... 10 kHz	$7,7 \cdot 10^{-3} /$	
		>2,2 A ... 3 A	20 Hz ... 45 Hz	$1,2 \cdot 10^{-3} /$
	>2,2 A ... 3 A	>45 Hz ... 1 kHz	$0,55 \cdot 10^{-3} /$	/ = measured value Fluke 5520A/5522A
		>1 kHz ... 2 kHz	$2,3 \cdot 10^{-3} /$	/ = measured value Fluke 5720A with 5220A
		>2 kHz ... 3 kHz	$3,5 \cdot 10^{-3} /$	
		>3 kHz ... 4 kHz	$4,6 \cdot 10^{-3} /$	
		>4 kHz ... 5 kHz	$5,4 \cdot 10^{-3} /$	/ = measured value Fluke 5520A/5522A
		>5 kHz ... 10 kHz	$23 \cdot 10^{-3} /$	
>3 A ... 20 A		10 Hz ... 100 Hz	$0,98 \cdot 10^{-3} /$	/ = measured value Fluke 5520A/5522A
		>100 Hz ... 1 kHz	$1,2 \cdot 10^{-3} /$	/ = measured value Fluke 5720A with 5220A
	>1 kHz ... 2 kHz	$2,3 \cdot 10^{-3} /$		



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AC current sources	0,1 mA ... 100 mA	>2 kHz ... 3 kHz	$3,5 \cdot 10^{-3} /$	/ = measured value HP 3458A
		>3 kHz ... 4 kHz	$4,6 \cdot 10^{-3} /$	
		>4 kHz ... 5 kHz	$5,8 \cdot 10^{-3} /$	
	20 Hz ... 45 Hz	$2,3 \cdot 10^{-3} /$		
	>45 Hz ... 100 Hz	$1,7 \cdot 10^{-3} /$		
	>100 Hz ... 5 kHz	$1,5 \cdot 10^{-3} /$		
AC current clamps	>100 mA ... 1 A	20 Hz ... 45 Hz	$2,4 \cdot 10^{-3} /$	/ = measured value
		>45 Hz ... 100 Hz	$1,9 \cdot 10^{-3} /$	
	>20 A ... 1000 A	>100 Hz ... 5 kHz	$2,0 \cdot 10^{-3} /$	
		40 Hz ... 100 Hz	$3,1 \cdot 10^{-3} /$	
AC current active power measuring in- struments	109 μ W ... 33 W	100 Hz ... 300 Hz 33 mV ... 1000 V 45 Hz ... 65 Hz; $PF=1$ 3,3 mA ... <33 mA	$0,85 \cdot 10^{-3} P$	P = measured value with Fluke 5520A/5522A PF : Powerfactor ($\cos \varphi$), φ : phase angle
	1,09 mW ... 330 W	33 mV ... 1000 V 45 Hz ... 65 Hz; $PF=1$ 33 mA ... <330 mA	$0,84 \cdot 10^{-3} P$	
	10,9 mW ... 1,1 kW	33 mV ... 1000 V 45 Hz ... 65 Hz; $PF=1$ 330 mA ... <1,1 A	$0,69 \cdot 10^{-3} P$	
	36,3 mW ... 3,0 kW	33 mV ... 1000 V 45 Hz ... 65 Hz; $PF=1$ 1,1 A ... <3 A	$0,62 \cdot 10^{-3} P$	
	99 mW ... 11 kW	33 mV ... 1000 V 45 Hz ... 65 Hz; $PF=1$ 3 A ... <11 A	$1,0 \cdot 10^{-3} P$	
	363 mW ... 20 kW	33 mV ... 1000 V 45 Hz ... 65 Hz; $PF=1$ 11 A ... <20,5 A	$1,3 \cdot 10^{-3} P$	



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DC active power measuring instru- ments	10,9 μ W ... 3,3 W	33 mV ... 1000 V 0,33 mA ... <3,3 mA	$0,20 \cdot 10^{-3} P$	P = measured value with Fluke 5520A/5522A
	109 μ W ... 33 W	33 mV ... 1000 V 3,3 mA ... <33 mA	$0,15 \cdot 10^{-3} P$	
	1,09 mW ... 330 W	33 mV ... 1000 V 33 mA ... <330 mA	$0,15 \cdot 10^{-3} P$	
	10,9 mW ... 1,1 kW	33 mV ... 1000 V 330 mA ... <1,1 A	$0,26 \cdot 10^{-3} P$	
	36,3 mW ... 3,0 kW	33 mV ... 1000 V 1,1 A ... <3,0 A	$0,30 \cdot 10^{-3} P$	
	99 mW ... 11 kW	33 mV ... 1000 V 3,0 mA ... <11 A	$0,52 \cdot 10^{-3} P$	
	363 mW ... 20 kW	33 mV ... 1000 V 11 A ... <20 A	$0,83 \cdot 10^{-3} P$	
Oscilloscopes Vertical deflection	5 mV ... <25 mV	$R_i = 50 \Omega$ Rechteckspannung 10 Hz ... 10 kHz	$2,0 \cdot 10^{-3} U + 16 \mu V$	U = measured value
	25 mV ... <110 mV		$1,9 \cdot 10^{-3} U + 16 \mu V$	
	0,11V ... <2,2 V		$1,9 \cdot 10^{-3} U + 33 \mu V$	
	2,2 V ... <6 V		$1,9 \cdot 10^{-3} U + 0,29$ mV	
	5 mV ... <25 mV	$R_i = 1 M\Omega$ Rechteckspannung 10 Hz ... 10 kHz	$0,74 \cdot 10^{-3} U + 16 \mu V$	
	25 mV ... <110 mV		$0,43 \cdot 10^{-3} U + 16 \mu V$	
	0,11V ... <2,2 V		$0,39 \cdot 10^{-3} U + 33 \mu V$	
	2,2 V ... <11 V		$0,39 \cdot 10^{-3} U + 0,29$ mV	
	11 V ... 130 V		$0,39 \cdot 10^{-3} U + 2,9$ mV	
	Oscilloscopes Horizontal deflection	5 ns ... 5 s	$R_i = 50 \Omega$	
Oscilloscopes Rise time	600 ps ... 10 ms	25 mV ... 1V $R_i = 50 \Omega$	$37 \cdot 10^{-3} t$	



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Frequency measurement	1mHz ... 1 GHz		$5 \cdot 10^{-11} f$	f = measured value
Period duration	1 μ s ... 1000s		$5 \cdot 10^{-11} t$	t = measured value
Time interval	2 s ... 48 h	Auflösung: 1/100 s 1/10 s 1 s	93 ms 0,24 s 1,1 s	stop watch
Capacity measuring instruments	190pF ... <400pF	10Hz ... 10kHz	$3,9 \cdot 10^{-3} C + 7,8 \text{ pF}$	C= Measured value with Fluke 5520A/5522A
	400pF ... <1,1nF	10Hz ... 10kHz	$3,9 \cdot 10^{-3} C + 7,8 \text{ pF}$	
	1,1nF ... <3,3nF	10Hz ... 3kHz	$4,0 \cdot 10^{-3} C + 7,8 \text{ pF}$	
	3,3nF ... <11nF	10Hz ... 1kHz	$2,0 \cdot 10^{-3} C + 7,8 \text{ pF}$	
	11nF ... <33nF	10Hz ... 1kHz	$2,3 \cdot 10^{-3} C + 78 \text{ pF}$	
	33nF ... <110nF	10Hz ... 1kHz	$2,0 \cdot 10^{-3} C + 78 \text{ pF}$	
	110nF ... <330nF	10Hz ... 1kHz	$4,2 \cdot 10^{-3} C$	
	330nF ... <1,1 μ F	10Hz ... 600Hz	$4,3 \cdot 10^{-3} C$	
	1,1 μ F ... <3,3 μ F	10Hz ... 300Hz	$4,8 \cdot 10^{-3} C$	
	3,3 μ F ... <11 μ F	10Hz ... 150Hz	$5,0 \cdot 10^{-3} C$	
	11 μ F ... <33 μ F	10Hz ... 120Hz	$5,8 \cdot 10^{-3} C$	
	33 μ F ... <110 μ F	10Hz ... 80Hz	$6,4 \cdot 10^{-3} C$	
	110 μ F ... <330 μ F	DC ... 50Hz	$5,6 \cdot 10^{-3} C$	
	330 μ F ... <1,1mF	DC ... 20Hz	$5,8 \cdot 10^{-3} C$	
	1,1mF ... <3,3mF	DC ... 6Hz	$5,6 \cdot 10^{-3} C$	
	3,3mF ... <11mF	DC ... 2Hz	$5,8 \cdot 10^{-3} C$	
11mF ... <33mF	DC ... 0,6Hz	$7,9 \cdot 10^{-3} C$		
33mF ... <110mF	DC ... 0,2Hz	$11 \cdot 10^{-3} C$		



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Temperature indicators and -simulators for resistance thermometer	-200°C ... 850°C		30 mK	Characteristic curve according DIN EN 60751:2009
Temperature indicators and -simulators of precious metal thermocouples	-200°C ... 1750°C		68 mK	Characteristic curve according DIN EN 60584-1:2014
Temperature indicators and -simulators for resistance thermometer of Non-precious metal thermocouples	-200°C ... 1300°C		25 mK	
TEMPERATURE		LABORATORY		
Ice Point	0°C	Ice-water mixture from deionised Water according VDE 0510	5,0 mK	
Resistance thermometers (with and without display) electrical thermometers with resistance sensor with display / digital output)	-100°C ... <-80°C	mathematical extrapolation of the thermomechanical characteristic curve of the calibration values for the range from -80 °C ... 0 °C	70 mK	comparison with standard reference resistance thermometer
	-80°C ... 0°C	stirred liquid bath	15 mK	
	>0°C ... 200°C		19 mK	
	>200°C ... 300°C	block calibrator	0,68 K	
Temperature Precious metal thermocouples (with and without display)	>300°C ... 500°C		0,85 K	comparison with standard reference resistance thermometer
	>0°C ... 100°C	stirred liquid bath	0,89 K	
	>100°C ... 200°C		0,70 K	
	>200°C ... 500°C	block calibrator	1,0 K	
	>500°C ... 1000°C		1,1 K	comparison with standard reference thermo-meter



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Temperature Non-precious metal thermocouples	-100°C ... <-80°C	mathematical extrapolation of the thermocouple characteristic curve of the calibration values for the range from -80°C...0°C	0,21 K	comparison with standard reference resistance thermometer
	-80°C ... 200°C	liquid bath	0,17 K	
	>200°C ... 500°C	block calibrator	0,86 K	comparison with Standard Reference thermocouple
Temperature measuring instruments, data loggers	>500°C ... 1000°C		1,2 K	
	-40°C ... -5°C	in the temperature cabinet	0,29 K	comparison with Standard Reference resistance thermometer
	>-5°C ... 5°C		0,25 K	
	>5°C ... 50°C		0,15 K	
	>50°C ... 80°C		0,22 K	
	>80°C ... 120°C		0,39 K	
	>120°C ... 180°C		0,88 K	
Radiation thermometer	-30°C ... 150°C	Calibration with black spotlight	1,2 K	Comparison with Standard Reference resistance thermometer with black spotlight
Surface temperature sensor	-20°C ... 100°C	Calibration of tempered surface	0,92 K	Comparison with Standard Reference resistance thermometer of tempered surface
	>100°C ... 180°C		1,4 K	
	>180°C ... 300°C		2,2 K	
Temperature block calibrators	-100°C ... <-80°C		0,33 K	Comparison with Standard Reference resistance thermometer
	-80°C ... 100°C		0,13 K	



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Measured Quantity/ Instrument or Gauge	Measurement Range	Measurement Conditions	Best Measurement Uncertainty \pm ¹⁾	Remarks
Temperature block calibrators	>100°C ... 200°C		0,28 K	
	>200°C ... 300°C		0,29 K	
	>300°C ... 1000°C		1,2 K	
Circulating Bath (in a defined useable volume)	-100°C ... 0°C	Calibration at de- fined positions in useable volume	0,30 K	Comparison with Standard Reference resistance thermo- meter
	>0°C ... 100°C		0,30 K	
	>100°C ... 200°C		0,30 K	
	>200°C ... 400°C		1,0 K	
TEMPERATURE				ONSITE
Ice Point	0°C	Ice-water mixture from deionised Water according VDE 0510	5,0 mK	
Resistance ther- mometers with dis- play / electric ther- mometers with resistance sensor with display / digital output Glass thermometer	-100°C ... 0°C	Block calibrator	0,39 K	Comparison with Standard Reference resistance thermo- meter
	>0°C ... 100°C		0,38 K	
	>100°C ... 200°C		0,38 K	
	>200°C ... 400°C		0,98 K	
Thermocouples with display	0°C ... 100°C	Block calibrator	0,95 K	
	>100°C ... 700°C		1,6 K	
	>700°C ... 1000°C		3,3 K	
Radiation thermom- eter	-20°C ... 150°C	Calibration with black spotlight	1,2 K	Comparison with Standard Reference resistance thermo- meter with black spotlight



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Measured Quantity/ Instrument or Gauge	Measurement Range	Measurement Conditions	Best Measurement Uncertainty \pm ¹⁾	Remarks
Surface temperature sensor	-20°C ... 150°C	Calibration without tempered surface	1,5 K	Comparison with Standard Reference resistance thermometer of tempered surface
Temperature Data logger	5°C ... 50°C	in the temperature cabinet	0,28 K	Comparison with Standard Reference resistance thermometer
Temperature block calibrators	-100°C ... 0°C		0,33 K	Comparison with Standard Reference resistance thermometer
	>0°C ... 100°C		0,31 K	
	>100°C ... 200°C		0,31 K	
	>200°C ... 400°C		0,95 K	
	>400°C ... 1000°C		2 K	
Circulating Bath (in a defined useable volume)	-100°C ... 0°C	Calibration at defined positions in useable volume	0,29 K	Comparison with Standard Reference thermocouple
	>0°C ... 100°C		0,28 K	
	>100°C ... 200°C		0,28 K	
	>200°C ... 400°C		0,95 K	
RELATIVE HUMIDITY AND DEW POINT TEMPERATURE				LABORATORY
Humidity sensor, Data logger and transmitters (relative humidity in the humidity generator with defined reduced volume for calibration (flow box))	10%rF ... 30%rF	-10°C - 0°C	0,38%rF	2-pressure / 2-temperature humidity generator
	>30%rF ... 50%rF		0,40%rF	
	>50%rF ... 70%rF		0,54%rF	
	>70%rF ... 80%rF		0,66%rF	



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Measured Quantity/ Instrument or Gauge	Measurement Range	Measurement Conditions	Best Measurement Uncertainty \pm ¹⁾	Remarks	
Humidity sensor, Data logger and transmitters (relative humidity in the hu- midity generator (Usage of entire vol- ume for calibration))	>80%rF ... 90%rF	>0°C - 70°C	1,1%rF	2-pressure / 2-tem- perature	
	10%rF ... 30%rF		0,20%rF		
	>30%rF ... 50%rF		0,25%rF		
	>50%rF ... 70%rF		0,44%rF		
	>70%rF ... 80%rF		0,58%rF		
	>80%rF ... 90%rF		1,1%rF		
	10%rF ... 50%rF	-10°C - 0°C	1,1%rF		
	>50%rF ... 80%rF	>0°C - 30°C	1,2%rF		humidity generator
	>80%rF ... 90%rF		1,5%rF		
	10%rF ... 30%rF		0,46%rF		
	>30%rF ... 50%rF		0,48%rF		
	>50%rF ... 70%rF		0,58%rF		
	>70%rF ... 80%rF		0,70%rF		
	>80%rF ... 90%rF		1,2%rF		
	10%rF ... 30%rF		>30°C - 50°C	0,78%rF	
	>30%rF ... 50%rF		0,79%rF		
	>50%rF ... 70%rF		0,87%rF		
	>70%rF ... 80%rF	0,95%rF			
	>80%rF ... 90%rF	1,3%rF			
	10%rF ... 30%rF	>50°C - 70°C	0,97%rF		
>30%rF ... 50%rF	0,98%rF				
>50%rF ... 70%rF	1,0%rF				
>70%rF ... 80%rF	1,1%rF				
>80%rF ... 90%rF	1,4%rF				

1) The given extended measurement uncertainty is the standard uncertainty of the measurement multiplied by an extension factor $k = 2$, which corresponds to a confidence level of about 95% for a normal distribution.



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Measured Quantity/ Instrument or Gauge	Measurement Range	Measurement Conditions	Best Measurement Uncertainty \pm ¹⁾	Remarks
Dew point hygrometer Dew point temperature in humidity generator with defined reduced volume for calibration (flow box))	-35,9°Ctp ... - 20,2°Ctp	10%rF ... 20%rF	27 mK	2-pressure / 2-temperature humidity generator (Temperature range -10°C ... 0°C)
	-28,8°C ... -15,4°C	>20%rF ... 30%rF	30 mK	
	-24,3°C ... -9,1°C	>30%rF ... 50%rF	57 mK	
	-18,5°C ... -4,8°C	>50%rF ... 70%rF	0,13 K	
	-14,4°C ... -3,0°C	>70%rF ... 80%rF	0,18 K	
	-12,8°C ... -1,4°C	>80%rF ... 90%rF	0,35 K	2-pressure / 2-temperature humidity generator (Temperature range >0 °C to 70°C)
	-27,8°C ... 36,8°C	10%rF ... 20%rF	22 mK	
	-20,1°C ... 44,5°C	>20%rF ... 30%rF	25 mK	
	-15,4°C ... 54,8°C	>30%rF ... 50%rF	54 mK	
	-9,1°C ... 62,0°C	>50%rF ... 70%rF	0,13 K	
-4,8°C ... 64,9°C	>70%rF ... 80%rF	0,18 K		
-3,0°C ... 68,0°C	>80%rF ... 90%rF	0,35 K		
RELATIVE HUMIDITY AND DEW POINT TEMPERATURE				ONSITE
relative humidity hygrometer, data logger, transmitters	10%rF ... 90%rF	5°C - 50°C	1,8%rF	humidity generator
PRESSURE				LABORATORY
Absolute pressure	0,03 bar ... 1,5 bar		0,20 mbar	Pressure medium: Gas
	>1,5 bar ... 5 bar		0,7 mbar	
	>5 bar ... 14 bar		1,5 mbar	
	>14 bar ... 70 bar		5,3 mbar	



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Measured Quantity/ Instrument or Gauge	Measurement Range	Measurement Conditions	Best Measurement Uncertainty \pm ¹⁾	Remarks
Negative overpressure	-1 bar ... <0,0 bar		0,20 mbar	
Negative and positive overpressure and differential pressure	-3,6 mbar ... 3,6 mbar		1,5 μ bar	
	-50 mbar ... 50 mbar		$0,11 \cdot 10^{-3} p + 2,0 \mu$ bar	
	-250 mbar ... 250 mbar		$0,11 \cdot 10^{-3} p + 5,0 \mu$ bar	
Negative and positive overpressure	0,0 bar ... 0,5 bar		80 μ bar	
	>0,5 bar ... 5 bar		0,70 mbar	
	>5 bar ... 14 bar		1,5 mbar	
	>14 bar ... 70 bar		5,3 mbar	
positive overpressure	0,0 bar ... 600 bar		0,07 bar	Pressure medium: oil/water
PRESSURE				ONSITE
pressure	-1 ... 20 bar relative		48 mbar	Pressure medium: gas
	0 ... 21 bar absolute		48 mbar	
	-0,4bar ... 0,4 bar		0,6 mbar	
	0 bar ... 600 bar		0,25 bar	Pressure medium: water
	-1 hPa ... 1 hPa		0,01 hPa	Pressure medium: gas
	-10 hPa ... 10 hPa		0,02 hPa	
FLOW QUANTITIES				LABORATORY
Anemometer 100mm	0,3 m/s ... 2 m/s	Probes of comparable construction	0,068 m/s	Calibration at flow path with comparison probe
	>2 m/s ... 5 m/s		0,12 m/s	
	>5 m/s ... 15 m/s		0,19 m/s	
Anemometer 60mm	0,3 m/s ... 2 m/s	Probes of comparable construction	0,043 m/s	



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Measured Quantity/ Instrument or Gauge	Measurement Range	Measurement Conditions	Best Measurement Uncertainty \pm ¹⁾	Remarks
Anemometer 25mm	>2 m/s ... 5 m/s	Probes of comparable construction	0,071 m/s	
	>5 m/s ... 10 m/s		0,094 m/s	
	>10 m/s ... 20 m/s		0,15 m/s	
Anemometer 16mm	0,5 m/s ... 10 m/s	Probes of comparable construction	0,17 m/s	
	>10 m/s ... 20 m/s		0,33 m/s	
Anemometer 12mm	0,6 m/s ... 10 m/s	Probes of comparable construction	0,16 m/s	
	>10 m/s ... 20 m/s		0,27 m/s	
Anemometer 12mm	0,6 m/s ... 10 m/s	Probes of comparable construction	0,19 m/s	
	>10 m/s ... 20 m/s		0,37 m/s	
Anemometer triple probe	0,1 m/s ... 2 m/s	Probes of comparable construction	0,087 m/s	
	>2 m/s ... 10 m/s		0,37 m/s	
Anemometer heat wire	>10 m/s ... 20 m/s	Probes of comparable construction	0,68 m/s	
	0,1 m/s ... 2 m/s		0,096 m/s	
	>2 m/s ... 5 m/s		0,12 m/s	
Anemometer heat sphere	>5 m/s ... 10 m/s	Probes of comparable construction	0,27 m/s	
	>10 m/s ... 20 m/s		0,40 m/s	
	0,1 m/s ... 2 m/s		0,25 m/s	
	>2 m/s ... 5 m/s		0,36 m/s	
Anemometer heat sphere	>5 m/s ... 10 m/s	Probes of comparable construction	0,48 m/s	
	>10 m/s ... 20 m/s		0,40 m/s	
RATATIONAL SPEED				LABORATORY
Mechanical & Optical	1 rpm ... 10 rpm		$5,4 \cdot 10^{-3}$ rpm	Mechanical and optical at rotational speed generator
	>10 rpm ... 100 rpm		$50 \cdot 10^{-3}$ rpm	
	>100 rpm ... 500 rpm		0,12 rpm	

1) The given extended measurement uncertainty is the standard uncertainty of the measurement multiplied by an extension factor $k = 2$, which corresponds to a confidence level of about 95% for a normal distribution.



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Measured Quantity/ Instrument or Gauge	Measurement Range	Measurement Conditions	Best Measurement Uncertainty \pm ¹⁾	Remarks
Mechanical & Optical	>500 rpm ... 1'000 rpm		0,28 rpm	
	>1'000 rpm ... 3'000 rpm		1,2 rpm	
	>3'000 rpm ... 6'000 rpm		1,5 rpm	
	>6'000 rpm ... 12'000 rpm		1,8 rpm	
Optical simulation	1 rpm ... 60 rpm		$0,53 \cdot 10^{-3}$ rpm	optical simulation at functiongenerator
	>60 rpm ... 600 rpm		$2,5 \cdot 10^{-3}$ rpm	
	>600 rpm ... 6'000 rpm		$2,6 \cdot 10^{-3}$ rpm	
	>6'000 rpm ... 60'000 rpm		$4,0 \cdot 10^{-3}$ rpm	
	>60'000 rpm ... 120'000 rpm		$7,0 \cdot 10^{-3}$ rpm	
DIMENSIONAL QUANTITIES				LABORATORY
Ring gauges / Plug gauges	1 mm ... 200 mm	VDI/VDE/DGQ 2618 Sheet 4,1	$0,8 \mu\text{m} + 1 \cdot 10^{-6} \cdot l$	$l =$ measured length
Length of plane-parallel, spherical or cylindrical measuring surfaces	0,05 mm ... 1000 mm	VDI/VDE/DGQ 2618 Sheet 4.4/19.1	$1,0 \mu\text{m} + 2 \cdot 10^{-6} \cdot l$	$l =$ measured length
Pin gauge	0,1 mm ... 30 mm	VDI/VDE/DGQ 2618 Sheet 4.2	$0,8 \mu\text{m} + 1 \cdot 10^{-6} \cdot l$	$l =$ measured length
Snap gauges	... 200 mm	VDI/VDE/DGQ 2618 Sheet 4.7	$0,8 \mu\text{m} + 2 \cdot 10^{-6} \cdot l$	$l =$ measured length
Thread plug simple pitch diameter	1,4 mm ... 200 mm nominal pitch: 0,3 mm ... 6 mm	VDI/VDE/DGQ 2618 Sheet 4.8	$3 \mu\text{m} + 2 \cdot 10^{-6} \cdot l$	$l =$ measured length
Thread ring simple pitch diameter	3 mm ... 200 mm nominal pitch: 0,5 mm ... 6 mm	VDI/VDE/DGQ 2618 Sheet 4.8	$3 \mu\text{m} + 3 \cdot 10^{-6} \cdot d$	$l =$ measured length



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Measured Quantity/ Instrument or Gauge	Measurement Range	Measurement Conditions	Best Measurement Uncertainty \pm ¹⁾	Remarks
Calipers for outside, inside and depth measurements	0 mm ... 1000 mm	VDI/VDE/DGQ 2618 Sheet 9.1	22 μm + 28 · 10 ⁻⁶ /	/ = measured length
Depth gauge cali- pers	0 mm ... 1000 mm	VDI/VDE/DGQ 2618 Sheet 9.2	22 μm + 28 · 10 ⁻⁶ /	/ = measured length
Height gauge cali- pers	0 mm ... 1000 mm	VDI/VDE/DGQ 2618 Sheet 9.3	22 μm + 28 · 10 ⁻⁶ /	/ = measured length
Micrometer	0 mm ... 500 mm	VDI/VDE/DGQ 2618 Sheet 10.1	2,5 μm + 12 · 10 ⁻⁶ /	/ = measured length
Micrometer head	... 50 mm	VDI/VDE/DGQ 2618 Sheet 10.4/19.1	1,9 μm + 4,6 · 10 ⁻⁶ /	/ = measured length
Micrometer with dial	... 100 mm	VDI/VDE/DGQ 2618 Sheet 10.3	1,9 μm + 4,6 · 10 ⁻⁶ /	/ = measured length
Lever-gauges measuring instru- ments (quick-action probes) for inside and external meas- urements	... 200 mm	VDI/VDE/DGQ 2618 Sheet 12.1/13.1	5 μm + 6,8 · 10 ⁻⁶ /	/ = measured length
Dial indicator (dial gauge)	... 100 mm	VDI/VDE/DGQ 2618 Sheet 11.1	3 μm + 1 · 10 ⁻⁶ /	/ = measured length
Dial comparator (precision pointer)	... 3 mm	VDI/VDE/DGQ 2618 Sheet 11.2	0,6 μm	
lever gauge		VDI/VDE/DGQ 2618 Sheet 11.3	1 μm	
Electronic length in- struments: - inductive - incremental	... 10 mm ... 100 mm	VDI/VDE/DGQ 2618 Sheet 14.1/19.1	0,6 μm + 1 · 10 ⁻⁶ /	/ = measured length
2-point internal micrometers	13 mm ... 1000 mm	VDI/VDE/DGQ 2618 Sheet 10.7	1,9 μm + 4,6 · 10 ⁻⁶ /	/ = measured length
3-point internal micrometers	3 mm ... 150 mm	VDI/VDE/DGQ 2618 Sheet 10.8	2,4 μm + 4,3 · 10 ⁻⁶ /	/ = measured length
Depth caliper with extension	0 mm ... 500 mm	VDI/VDE/DGQ 2618 Sheet 10.5	2,5 μm + 12 · 10 ⁻⁶ /	/ = measured length
Height gauges	0 mm ... 1000 mm	VDI/VDE/DGQ 2618 Sheet 16.1	0,67 μm + 2,3 · 10 ⁻⁶ /	/ = measured length



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Measured Quantity/ Instrument or Gauge	Measurement Range	Measurement Conditions	Best Measurement Uncertainty \pm ¹⁾	Remarks																										
Flat / bevelled square	0 mm ... 600 mm	VDI/VDE/DGQ 2618 Blatt 7.1	1,1 μ m																											
Straight edge	0 mm ... 1000 mm	VDI/VDE/DGQ 2618 Blatt 5.1	1,2 μ m																											
Gauge blocks DIN EN ISO 3650 Central length	0,5 mm ... 100 mm	VDI/VDE/DGQ 2618 Sheet 3.1	0,09 μ m + 0,2 · 10 ⁻⁶ /	/ = measured length																										
	100 mm ... 131,4 mm	VDI/VDE/DGQ 2618 Sheet 3.1	0,14 μ m + 0,2 · 10 ⁻⁶ /	/ = measured length																										
Variation in length		VDI/VDE/DGQ 2618 Sheet 3.1	0,07 μ m																											
DIMENSIONAL QUANTITIES				ONSITE																										
Height gauges	0 mm ... 1000 mm	VDI/VDE/DGQ 2618 Blatt 16.1	0,67 μ m + 2,3 · 10 ⁻⁶ /	/ = measured length																										
3-DIMENSIONAL QUANTITIES				LABORATORY																										
Gauges and refer- ence gauges	Coordinate measur- ing machine with calibrated measur- ing volume of: X = 800 mm Y = 600 mm Z = 300 mm	tactile und optical measurement	related to defined size measurements of 100 mm	using coordinate measuring machine; measurement un- certainty estimation according VDI/VDE/DGQ 2617 Blatt 11																										
Size: diameter distance angle Form: straightness flatness roundness parallelism symmetry coaxiality run out total run out Position			<table border="0"> <tr> <td>tactile</td> <td>optical</td> </tr> <tr> <td>0,9 μm</td> <td>1,0 μm</td> </tr> <tr> <td>1,0 μm</td> <td>1,2 μm</td> </tr> <tr> <td>0,0004°</td> <td>0,0012°</td> </tr> <tr> <td>2,2 μm</td> <td>0,7 μm</td> </tr> <tr> <td>2,2 μm</td> <td>1,7 μm</td> </tr> <tr> <td>2,7 μm</td> <td>1,7 μm</td> </tr> <tr> <td>2,2 μm</td> <td>1,5 μm</td> </tr> <tr> <td>1,6 μm</td> <td>0,5 μm</td> </tr> <tr> <td>0,7 μm</td> <td>0,6 μm</td> </tr> <tr> <td>2,4 μm</td> <td>2,0 μm</td> </tr> <tr> <td>3,3 μm</td> <td>2,9 μm</td> </tr> <tr> <td>1,1 μm</td> <td>1,1 μm</td> </tr> </table>	tactile	optical	0,9 μ m	1,0 μ m	1,0 μ m	1,2 μ m	0,0004°	0,0012°	2,2 μ m	0,7 μ m	2,2 μ m	1,7 μ m	2,7 μ m	1,7 μ m	2,2 μ m	1,5 μ m	1,6 μ m	0,5 μ m	0,7 μ m	0,6 μ m	2,4 μ m	2,0 μ m	3,3 μ m	2,9 μ m	1,1 μ m	1,1 μ m	measurement un- certainty can vary significantly from the uncertainty shown in the exam- ple of simple meas- uring tasks
tactile	optical																													
0,9 μ m	1,0 μ m																													
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2,7 μ m	1,7 μ m																													
2,2 μ m	1,5 μ m																													
1,6 μ m	0,5 μ m																													
0,7 μ m	0,6 μ m																													
2,4 μ m	2,0 μ m																													
3,3 μ m	2,9 μ m																													
1,1 μ m	1,1 μ m																													
TORQUE				LABORATORY																										
Torque hand-oper- ated torque screw- driver / triggering / indicating	0,2 Nm ... 1000 Nm	DIN EN ISO 6789:2017	0,6 %, but not less than 1 Digit																											



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Measured Quantity/ Instrument or Gauge	Measurement Range	Measurement Conditions	Best Measurement Uncertainty \pm ¹⁾	Remarks
TORQUE				ONSITE
Torque hand-operated torque screwdriver / triggering / indicating	0,2 Nm ... 1000 Nm	DIN EN ISO 6789:2017	0,8 %, but not less than 1 Digit	
MECHANICAL QUANTITIES: SCALES				ONSITE
Weighing Scales precision scale table scale table or floor scale	1 mg ... 500mg	with weights at the scale installation site	0,03 mg	
	>500 mg ... 100 kg		$2.5 \cdot 10^{-5}$	

Abbreviation	Signification
Onsite	on-site, calibration is done at the customer / installation site

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