



## SCS Directory

**Accreditation number: SCS 0085**

International standard: ISO/IEC 17025:2017

Swiss standard: SN EN ISO/IEC 17025:2018

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Initial accreditation: 09.02.1998  
Current accreditation: 21.03.2023 to 20.03.2028  
Scope of accreditation see: [www.sas.admin.ch](http://www.sas.admin.ch)  
(Accredited bodies)

### Scope of accreditation as of 21.03.2023

#### Calibration laboratory for electrical quantities, torque and time

Calibration and Measurement Capability (CMC)

Measured Quantity / Instrument or Gauge	Measurement Range	Measurement Conditions	Best Measurement Capability $\pm$ <sup>1)</sup>	Remarks
<b>DC Voltage</b>				
Voltmeters	0 V		0,81 $\mu$ V	Short circuit
	3 $\mu$ V ... < 220 mV		$11 \cdot 10^{-6} U + 1,6 \mu$ V	U=measured value
	220 mV ... < 2,2 V		$6,5 \cdot 10^{-6} U + 1,7 \mu$ V	
	2,2 V ... < 11 V		$5,4 \cdot 10^{-6} U + 2,5 \mu$ V	
	11 V ... < 22 V		$5,4 \cdot 10^{-6} U + 4,0 \mu$ V	
	22 V ... < 220 V		$7,9 \cdot 10^{-6} U + 40 \mu$ V	
	220 V ... 1100 V		$8,9 \cdot 10^{-6} U + 400 \mu$ V	
Voltage calibrators	3 $\mu$ V ... < 120 mV		$15 \cdot 10^{-6} U + 1,2 \mu$ V	
	120 mV ... < 1,2 V		$12 \cdot 10^{-6} U + 1,2 \mu$ V	
	1,2 V ... < 12 V		$12 \cdot 10^{-6} U + 0,6 \mu$ V	



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DC Current Ammeters	12 V ... < 120 V		$13 \cdot 10^{-6} U + 35 \mu\text{V}$	
	120 V ... 1000 V		$13 \cdot 10^{-6} U + 116 \mu\text{V}$	
	0 A		46 pA	Open circuit
	1 $\mu\text{A}$ ... < 220 $\mu\text{A}$		$45 \cdot 10^{-6} I + 6,0 \text{nA}$	I=measured value
	220 $\mu\text{A}$ ... < 2,2 mA		$40 \cdot 10^{-6} I + 7,0 \text{nA}$	
	2,2 mA ... < 22 mA		$40 \cdot 10^{-6} I + 40 \text{nA}$	
	22 mA ... < 220 mA		$50 \cdot 10^{-6} I + 700 \text{nA}$	
	220 mA ... < 2,2 A		$85 \cdot 10^{-6} I + 12 \mu\text{A}$	
	2,2 A ... 20 A		$190 \cdot 10^{-6} I + 2,0 \text{mA}$	
	>20 A ... 100 A		$190 \cdot 10^{-6} I + 12 \text{mA}$	
Current transducer	>100 A ... 150 A		0,65 % + 0,20 A	
	>150 A ... 1000 A		0,65 % + 0,60 A	
Current calibrators	120 nA ... < 1,2 $\mu\text{A}$		$35 \cdot 10^{-6} I + 46 \text{pA}$	
	1,2 $\mu\text{A}$ ... < 12 $\mu\text{A}$		$35 \cdot 10^{-6} I + 0,12 \text{nA}$	
	12 $\mu\text{A}$ ... < 120 $\mu\text{A}$		$35 \cdot 10^{-6} I + 1,0 \text{nA}$	
	120 $\mu\text{A}$ ... < 1,2 mA		$35 \cdot 10^{-6} I + 6,0 \text{nA}$	
	1,2 mA ... < 12 mA		$35 \cdot 10^{-6} I + 60 \text{nA}$	
	12 mA ... < 120 mA		$50 \cdot 10^{-6} I + 600 \text{nA}$	
	120 mA ... < 1,05 A		$135 \cdot 10^{-6} I + 12 \mu\text{A}$	
	1,05 A ... 20 A		$600 \cdot 10^{-6} I + 2,0 \text{mA}$	
	>20 A ... 100 A		$220 \cdot 10^{-6} I + 12 \text{mA}$	
DC Resistance Ohmmeters	0 $\Omega$		10 $\mu\Omega$	4 wire short
	0 $\Omega$		1,1 m $\Omega$	2 wire short
	1 $\Omega$ ; 1,9 $\Omega$		$98 \cdot 10^{-6} R$	The indicated measuring uncertainties are only valid for fixed values
	10 $\Omega$ ; 19 $\Omega$		$24 \cdot 10^{-6} R$	
	100 $\Omega$ ; 190 $\Omega$		$11 \cdot 10^{-6} R$	
	1 k $\Omega$ ; 1,9 k $\Omega$ ; 10 k $\Omega$		$7,5 \cdot 10^{-6} R$	R=measured value
	19 k $\Omega$		$7,5 \cdot 10^{-6} R$	



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Resistance calibrators	100 kΩ		$9,0 \cdot 10^{-6} R$	
	190 kΩ		$9,0 \cdot 10^{-6} R$	
	1 MΩ		$15 \cdot 10^{-6} R$	
	1,9 MΩ		$20 \cdot 10^{-6} R$	
	10 MΩ		$45 \cdot 10^{-6} R$	
	19 MΩ		$60 \cdot 10^{-6} R$	
	100 MΩ		$120 \cdot 10^{-6} R$	
	0,1 Ω ... < 12 Ω		$9,0 \cdot 10^{-6} R + 120 \mu\Omega$	
	12 Ω ... < 120 Ω		$7,0 \cdot 10^{-6} R + 1,2 \text{ m}\Omega$	
	120 Ω ... < 1,2 kΩ		$4,0 \cdot 10^{-6} R + 1,2 \text{ m}\Omega$	
	1,2 kΩ ... < 12 kΩ		$4,0 \cdot 10^{-6} R + 12 \text{ m}\Omega$	
	12 kΩ ... < 120 kΩ		$13 \cdot 10^{-6} R + 120 \text{ m}\Omega$	
	120 kΩ ... < 1,2 MΩ		$13 \cdot 10^{-6} R + 5,0 \Omega$	
AC Voltage	1,2 MΩ ... < 12 MΩ		$24 \cdot 10^{-6} R + 120 \Omega$	
	12 MΩ ... < 120 MΩ		$130 \cdot 10^{-6} R + 1,2 \text{ k}\Omega$	
	120 MΩ ... 1.2 GΩ		$1,2 \cdot 10^{-2} R + 12 \text{ k}\Omega$	
Voltmeters	10 mV ... < 22 mV	10 Hz ... < 20 Hz	$255 \cdot 10^{-6} U + 7,0 \mu\text{V}$	U=measured value
		20 Hz ... < 40 Hz	$134 \cdot 10^{-6} U + 7,0 \mu\text{V}$	
		40 Hz ... 20 kHz	$123 \cdot 10^{-6} U + 4,0 \mu\text{V}$	
	22 mV ... < 220 mV	10 Hz ... < 20 Hz	$250 \cdot 10^{-6} U + 4,0 \mu\text{V}$	
		20 Hz ... < 40 Hz	$100 \cdot 10^{-6} U + 7,0 \mu\text{V}$	
		40 Hz ... < 20 kHz	$100 \cdot 10^{-6} U + 7,0 \mu\text{V}$	
		20 kHz ... < 50 kHz	$160 \cdot 10^{-6} U + 7,0 \mu\text{V}$	
		50 kHz ... < 100 kHz	$330 \cdot 10^{-6} U + 17 \mu\text{V}$	
		100 kHz ... < 300 kHz	$670 \cdot 10^{-6} U + 20 \mu\text{V}$	
		300 kHz ... < 500 kHz	$1,45 \cdot 10^{-3} U + 25 \mu\text{V}$	
		500 kHz ... 1 MHz	$2,75 \cdot 10^{-3} U + 45 \mu\text{V}$	



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AC Voltage	220 mV ... < 2,2 V	10 Hz ... < 20 Hz	$250 \cdot 10^{-6} U + 40 \mu\text{V}$	
		20 Hz ... < 40 Hz	$100 \cdot 10^{-6} U + 15 \mu\text{V}$	
		40 Hz ... < 20 kHz	$85 \cdot 10^{-6} U + 8,0 \mu\text{V}$	
		20 kHz ... < 50 kHz	$95 \cdot 10^{-6} U + 10 \mu\text{V}$	
		50 kHz ... < 100 kHz	$110 \cdot 10^{-6} U + 30 \mu\text{V}$	
		100 kHz ... < 300 kHz	$350 \cdot 10^{-6} U + 80 \mu\text{V}$	
		300 kHz ... < 500 kHz	$1,05 \cdot 10^{-3} U + 200 \mu\text{V}$	
		500 kHz ... 1 MHz	$1,75 \cdot 10^{-3} U + 300 \mu\text{V}$	
	2,2 V ... < 22 V	10 Hz ... < 20 Hz	$250 \cdot 10^{-6} U + 400 \mu\text{V}$	
		20 Hz ... < 40 Hz	$115 \cdot 10^{-6} U + 150 \mu\text{V}$	
		40 Hz ... < 20 kHz	$75 \cdot 10^{-6} U + 50 \mu\text{V}$	
		20 kHz ... < 50 kHz	$95 \cdot 10^{-6} U + 100 \mu\text{V}$	
	22 V ... < 220 V	50 kHz ... < 100 kHz	$90 \cdot 10^{-6} U + 200 \mu\text{V}$	
		100 kHz ... < 300 kHz	$265 \cdot 10^{-6} U + 600 \mu\text{V}$	
		300 kHz ... < 500 kHz	$1,05 \cdot 10^{-3} U + 2,0 \text{ m}\text{V}$	
		500 kHz ... 1 MHz	$1,55 \cdot 10^{-6} U + 3,2 \text{ m}\text{V}$	
	220 V ... 1000 V	10 Hz ... < 20 Hz	$250 \cdot 10^{-6} U + 4,0 \text{ m}\text{V}$	Volt-Hertz Capability 100-300kHz 22E6 V-Hz
		20 Hz ... < 40 Hz	$100 \cdot 10^{-6} U + 1,5 \text{ m}\text{V}$	
		40 Hz ... < 20 kHz	$75 \cdot 10^{-6} U + 600 \mu\text{V}$	
		20 kHz ... < 50 kHz	$105 \cdot 10^{-6} U + 1,0 \text{ m}\text{V}$	
		50 kHz ... < 100 kHz	$170 \cdot 10^{-6} U + 2,5 \text{ m}\text{V}$	
		100 kHz ... 300 kHz	$920 \cdot 10^{-6} U + 16 \text{ m}\text{V}$	
Voltage calibrators	10 mV ... < 12 mV	50 Hz ... 1 kHz	$90 \cdot 10^{-6} U + 3,5 \text{ m}\text{V}$	
		10 Hz ... < 40 Hz	$450 \cdot 10^{-6} U + 8,0 \mu\text{V}$	
		40 Hz ... < 1 kHz	$260 \cdot 10^{-6} U + 7,0 \mu\text{V}$	
	12 mV ... < 120 mV	1 kHz ... 20 kHz	$365 \cdot 10^{-6} U + 7,0 \mu\text{V}$	
		10 Hz ... < 40 Hz	$150 \cdot 10^{-6} U + 7,0 \mu\text{V}$	
		40 Hz ... < 1 kHz	$115 \cdot 10^{-6} U + 6,0 \mu\text{V}$	
		1 kHz ... < 20 kHz	$185 \cdot 10^{-6} U + 6,0 \mu\text{V}$	



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AC Current Ammeters	120 mV ... < 1,2 V	10 Hz ... < 40 Hz	$125 \cdot 10^{-6} U + 50 \mu\text{V}$	
		40 Hz ... < 1 kHz	$100 \cdot 10^{-6} U + 24 \mu\text{V}$	
		1 kHz ... < 20 kHz	$180 \cdot 10^{-6} U + 24 \mu\text{V}$	
		20 kHz ... < 50 kHz	$370 \cdot 10^{-6} U + 24 \mu\text{V}$	
		50 kHz ... < 100 kHz	$940 \cdot 10^{-6} U + 24 \mu\text{V}$	
		100 kHz ... < 300 kHz	$3,5 \cdot 10^{-3} U + 120 \mu\text{V}$	
		300 kHz ... 1 MHz	$1,2 \cdot 10^{-2} U + 120 \mu\text{V}$	
	1,2 V ... < 12 V	10 Hz ... < 40 Hz	$315 \cdot 10^{-6} U + 465 \mu\text{V}$	
		40 Hz ... < 1 kHz	$100 \cdot 10^{-6} U + 235 \mu\text{V}$	
		1 kHz ... < 20 kHz	$175 \cdot 10^{-6} U + 235 \mu\text{V}$	
		20 kHz ... < 50 kHz	$360 \cdot 10^{-6} U + 235 \mu\text{V}$	
		50 kHz ... < 100 kHz	$930 \cdot 10^{-6} U + 235 \mu\text{V}$	
		100 kHz ... < 300 kHz	$3,5 \cdot 10^{-3} U + 1,2 \text{ mV}$	
		300 kHz ... 1 MHz	$1,2 \cdot 10^{-2} U + 1,2 \text{ mV}$	
	12 V ... < 120 V	10 Hz ... < 40 Hz	$385 \cdot 10^{-6} U + 4,95 \text{ mV}$	
		40 Hz ... < 1 kHz	$240 \cdot 10^{-6} U + 2,45 \text{ mV}$	
		1 kHz ... < 20 kHz	$240 \cdot 10^{-6} U + 2,45 \text{ mV}$	
		20 kHz ... < 50 kHz	$420 \cdot 10^{-6} U + 2,60 \text{ mV}$	
		50 kHz ... 100 kHz	$1,4 \cdot 10^{-3} U + 2,60 \text{ mV}$	
	120 V ... 700 V	10 Hz ... < 40 Hz	$555 \cdot 10^{-6} U + 50 \text{ mV}$	
		40 Hz ... < 1 kHz	$470 \cdot 10^{-6} U + 30 \text{ mV}$	
		1 kHz ... < 20 kHz	$700 \cdot 10^{-6} U + 25 \text{ mV}$	
		20 kHz ... < 50 kHz	$1,4 \cdot 10^{-3} U + 25 \text{ mV}$	
		50 kHz ... 100 kHz	$3,5 \cdot 10^{-3} U + 25 \text{ mV}$	
100 $\mu\text{A}$ ... < 220 $\mu\text{A}$	20 Hz ... < 40 Hz	$260 \cdot 10^{-6} I + 10 \text{ nA}$	I=measured value	
	40 Hz ... < 1 kHz	$215 \cdot 10^{-6} I + 8,0 \text{ nA}$		
	1 kHz ... 5 kHz	$340 \cdot 10^{-6} I + 12 \text{ nA}$		



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Current transducer	220 µA ... < 2,2 mA	20 Hz ... < 40 Hz	$250 \cdot 10^{-6} I + 35 \text{ nA}$	
		40 Hz ... < 1 kHz	$215 \cdot 10^{-6} I + 35 \text{ nA}$	
		1 kHz ... 5 kHz	$275 \cdot 10^{-6} I + 110 \text{ nA}$	
	2,2 mA ... < 22 mA	20 Hz ... < 40 Hz	$235 \cdot 10^{-6} I + 350 \text{ nA}$	
		40 Hz ... < 1 kHz	$190 \cdot 10^{-6} I + 350 \text{ nA}$	
		1 kHz ... 5 kHz	$255 \cdot 10^{-6} I + 550 \text{ nA}$	
	22 mA ... < 220 mA	20 Hz ... < 40 Hz	$235 \cdot 10^{-6} I + 3.5 \mu\text{A}$	
		40 Hz ... < 1 kHz	$190 \cdot 10^{-6} I + 2.5 \mu\text{A}$	
		1 kHz ... 5 kHz	$255 \cdot 10^{-6} I + 3.5 \mu\text{A}$	
	220 mA ... < 2,2 A	20 Hz ... < 1 kHz	$315 \cdot 10^{-6} I + 55 \mu\text{A}$	
		1 kHz ... 5 kHz	$480 \cdot 10^{-6} I + 125 \mu\text{A}$	
		2,2 A ... 20 A	$170 \cdot 10^{-6} I + 0,4 \text{ mA}$	
	>20 A ... 120 A	40 Hz ... 850 Hz	$425 \cdot 10^{-6} I + 0,8 \text{ mA}$	
		>850 Hz ... 5 kHz	$440 \cdot 10^{-6} I + 0,8 \text{ mA}$	
		>20 A ... 120 A	$190 \cdot 10^{-6} I + 0,4 \text{ mA}$	
Current calibrators	> 120 A ... 150 A	45 Hz ... 65 Hz	0,70 % + 0,50 A	
		>65 Hz ... 400 Hz	1,20 % + 0,50 A	
	>150A ... 1000A	45 Hz ... 65 Hz	0,70 % + 1,10 A	
		>65 Hz ... 400 Hz	1,20 % + 1,10 A	
Current calibrators	100 µA ... < 120 µA	20 Hz ... < 45 Hz	$1,75 \cdot 10^{-3} I + 40 \text{ nA}$	
		45 Hz ... < 100 Hz	$730 \cdot 10^{-6} I + 40 \text{ nA}$	
		100 Hz ... 5 kHz	$780 \cdot 10^{-6} I + 40 \text{ nA}$	
	120 µA ... < 1,2 mA	20 Hz ... < 45 Hz	$1,75 \cdot 10^{-3} I + 250 \text{ nA}$	
		45 Hz ... < 100 Hz	$730 \cdot 10^{-6} I + 250 \text{ nA}$	
		100 Hz ... 5 kHz	$450 \cdot 10^{-6} I + 250 \text{ nA}$	
	1,2 mA ... < 12 mA	20 Hz ... < 45 Hz	$1,75 \cdot 10^{-6} I + 2,35 \mu\text{A}$	
		45 Hz ... < 100 Hz	$720 \cdot 10^{-6} I + 2,35 \mu\text{A}$	
		100 Hz ... 5 kHz	$440 \cdot 10^{-6} I + 2,4 \mu\text{A}$	
	12 mA ... < 120 mA	20 Hz ... < 45 Hz	$1,75 \cdot 10^{-3} I + 24 \mu\text{A}$	
		45 Hz ... < 100 Hz	$720 \cdot 10^{-6} I + 24 \mu\text{A}$	
		100 Hz ... < 5 kHz	$440 \cdot 10^{-6} I + 24 \mu\text{A}$	



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<b>Capacitance</b>	120 mA ... < 1,05 A	5 kHz ... 10 kHz	$890 \cdot 10^{-6} I + 24 \mu\text{A}$	
		20 Hz ... < 45 Hz	$1,9 \cdot 10^{-3} I + 235 \mu\text{A}$	
		45 Hz ... < 100 Hz	$980 \cdot 10^{-6} I + 235 \mu\text{A}$	
		100 Hz ... < 5 kHz	$1,3 \cdot 10^{-3} I + 250 \mu\text{A}$	
		5 kHz ... 10 kHz	$3,6 \cdot 10^{-3} I + 250 \mu\text{A}$	
	1,05 A ... 20 A	20 Hz ... 850 Hz	$205 \cdot 10^{-6} I + 0,4 \text{ mA}$	
		>850 Hz ... 5 kHz	$440 \cdot 10^{-6} I + 0,8 \text{ mA}$	
Capacitance meters	1 nF; 10 nF; 100 nF; 1 $\mu\text{F}$	1 kHz	$275 \cdot 10^{-6} C$	Only fixed values C=measured value
<b>Inductance</b>				
Inductance meters	100 $\mu\text{H}$ ; 1 mH; 10 mH; 100 mH; 1 H	1 kHz	$385 \cdot 10^{-6} L + 0,2 \mu\text{H}$	Only fixed values L=measured value
<b>DC Highvoltage</b>				
HV probes and meters	1 kV ... < 10 kV		0,11 % + 0,6 V	
	10 kV ... 25 kV		0,067 % + 0,6 V	
<b>AC Highvoltage</b>				
Sources	1 kV ... 10 kV	50/60Hz	0,13 % + 1,0 V	
<b>Frequency</b>				
Frequency counters	100 kHz; 1 MHz; 5 MHz; 10 MHz		$10 \cdot 10^{-12} f$	Measuring time > 1s
	1 Hz ... < 10 MHz		$5,9 \cdot 10^{-10} f$	f=measured value
	10 MHz ... 40 GHz		$6,1 \cdot 10^{-10} f$	
Frequency generators	10 Hz ... < 1,5 GHz		$5,9 \cdot 10^{-10} f$	Measuring time > 100s
	1,5 GHz ... 20 GHz		$7,7 \cdot 10^{-10} f$	
<b>RF Power</b>				
RF level detectors	+10 dBm ... -40 dBm	9 kHz ... < 2 GHz	3,5 %	Sensor: VSWR $\leq 1,3$
		2 GHz ... < 12 GHz	5,5 %	
		12 GHz ... 18 GHz	6,5 %	
	-40 dBm ... -100 dBm	9 kHz ... < 2 GHz	3,3 %	
		2 GHz ... 18 GHz	5,1 %	



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RF generators	+20 dBm ... +10 dBm	9 kHz ... < 50 MHz	1,6 %	Generator: VSWR $\leq$ 1,5	
		50 MHz ... < 2 GHz	1,8 %		
		2 GHz ... < 12 GHz	2,2 %		
		12 GHz ... 18 GHz	2,5 %		
	+10 dBm ... -20 dBm	9 kHz ... < 50 MHz	1,8 %		
		50 MHz ... < 2 GHz	2,0 %		
		2 GHz ... < 12 GHz	2,5 %		
		12 GHz ... 18 GHz	2,6 %		
	0 dBm ... -120 dBm	10 MHz ... 1300 MHz	6,6 %	Relativ power	
		9 kHz ... < 2 GHz	3,6 %		
		2 GHz ... < 12 GHz	9,9 %		
RF powermeters	0,1 W ... < 40 W	12 GHz ... 18 GHz	9,6 %		
		10 MHz ... 200 MHz	6,0 %		
	40 W ... 80 W	10 MHz ... 200 MHz	7,8 %	Sensor: VSWR $\leq$ 1,2	
<b>AM-modulation</b>					
Modulation meters	0 % ... 99 %	Carrier frequency:  10 MHz ... 400 MHz	2,0 %		
		Modulation frequency:  20 Hz ... 100 kHz			
Signal generators	5 % ... 99 %	Carrier frequency:  150 kHz ... 10 MHz	4,5 %		
		Modulation frequency:  20 Hz ... 10 kHz			
		50 Hz ... 10 kHz	3,5 %		
		Carrier frequency:  10 MHz ... 1300 MHz	4,5 %		
	5 % ... 99 %	Modulation frequency:  20 Hz ... 100 kHz			
		50 Hz ... 50 kHz			
		Carrier frequency:  10 MHz ... 1300 MHz			
		Modulation frequency:  20 Hz ... 100 kHz			



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<b>FM-modulation</b>				
Modulation meters	Frequency deviation 1 kHz ... 50 kHz	Carrier frequency: 10 MHz ... 400 MHz Modulation frequency: 20 Hz ... 200 kHz	0,29 % + 1,0 Hz rms	
	Frequency deviation 50 kHz ... 200 kHz	Carrier frequency: 10 MHz ... 400 MHz Modulation frequency: 20 Hz ... 200 kHz	0,29 % + 8,0 Hz rms	
	Frequency deviation 200 kHz ... 400 kHz	Carrier frequency: 10 MHz ... 400 MHz Modulation frequency: 20 Hz ... 200 kHz	0,29 % + 32 Hz rms	
Signal generators	Frequency deviation 8 Hz ... 40 kHz	Carrier frequency: 250 kHz ... 10 MHz Modulation frequency: 20 Hz ... 10 kHz	2,5 % + 8,0 Hz rms	
	Frequency deviation 8 Hz ... 400 kHz	Carrier frequency: 10 MHz ... 1300 MHz Modulation frequency: 50 Hz ... 100 kHz 20 Hz ... 200 kHz	1,5 % + 8,0 Hz rms 5,8 % + 8,0 Hz rms	
<b>Oscilloscopes</b>				
Rectangular voltage amplitude	1 mV ... 6,6 V	1 kHz	0,39% + 40 $\mu$ V	In 50 $\Omega$
	1 mV ... 11 V	1 kHz	0,35 % + 40 $\mu$ V	In 1 M $\Omega$
	11 V ... 130 V	1 kHz	0,35 % + 123 $\mu$ V	In 1 M $\Omega$
Time marker	1 ns ... 20 ms		$3,5 \cdot 10^{-6} t + 60$ ps	t=measured value
	20 ms ... 50 ms		$90 \cdot 10^{-6} t + 500$ ps	



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Risetime	50 ms ... 200 ms		$260 \cdot 10^{-6} t + 1,0$ ns	50 $\Omega$ : VSWR $\leq 1,3$ calibrated on $U_{INC}$
	0,20 s ... 1 s		$1,19 \cdot 10^{-3} t + 5,0$ ns	
	1 s ... 2 s		$2,3 \cdot 10^{-3} t + 10$ ns	
	2 s ... 5 s		$5,8 \cdot 10^{-3} t + 18$ ns	
	> 15 ps		4,5 ps	
	Flatness 50 Ohm	50 kHz ... <100 MHz	$2,58 \% + 115 \mu\text{V}$	
Flatness 1 M $\Omega$	5 mVpp ... 5,5 Vpp	100 MHz ... < 300 MHz	$3,01 \% + 115 \mu\text{V}$	1 M $\Omega$ : $C_{IN} \leq 10 \text{ pF}$ calibrated on $U_{Load}$
		300 MHz ... < 600 MHz	$5,01 \% + 115 \mu\text{V}$	
	4 mVpp ... 3.5 Vpp	600 MHz ... 1100 MHz	$6,09 \% + 115 \mu\text{V}$	
	5 mVpp ... 5,5 Vpp	50 kHz ... <100 MHz	$3,24 \% + 115 \mu\text{V}$	
		100 MHz ... < 300 MHz	$6,14 \% + 115 \mu\text{V}$	
		300 MHz ... < 600 MHz	$7,33 \% + 115 \mu\text{V}$	
Number of revolutions	4 mVpp ... 3.5 Vpp	600 MHz ... 1100 MHz	$8,40 \% + 115 \mu\text{V}$	Optical
	5 ... 100000 U/min		$15 \cdot 10^{-6} n$	
Torque				
Transducers and measurement devices	0,05 Nm ... 1000 Nm		0,4 %, not smaller than 1 digit	
Torque wrench	0,02 Nm ... 1000 Nm		0,4 %, not smaller than 1 digit	
Time				
Rate of electronic watches/stopwatches	+/- 900 s/month		1,3 s/month	
	+/- 9,99 s/day		0,04 s/day	
	+/- 10 ... 30 s/day		0,10 s/day	

In case of contradictions in the language versions of the directories, the German version shall apply.

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