



## SCS Directory

Accreditation number: SCS 0049

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

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Internet: [www.kistler.com](http://www.kistler.com)  
Initial accreditation: 05.10.1994  
Current accreditation: 28.08.2021 to 27.08.2026  
Scope of accreditation see: [www.sas.admin.ch](http://www.sas.admin.ch)  
(Accredited bodies)

### Scope of accreditation as of 28.08.2021

#### Calibration laboratory for pressure, force and electrical quantities

##### Calibration and Measurement Capability (CMC)

Measured Quantity / Instrument or Gauge	Measurement Range	Measurement Conditions	Best Measurement Uncertainty $\pm$ <sup>1)</sup>	Remarks
<b>Overpressure in fluids</b> Calibration of piezoelectric pressure sensors	1 ... < 10 bar	stepwise	0,06 %	above 1000 bar with pressure multiplier
	10 ... < 100 bar	change of	0,03 %	
	100 ... 1000 bar	pressure load	0,01 %	
	1000 ... 8000 bar		0,05 %	
<b>Overpressure in fluids</b> Calibration of piezoresistive pressure sensors	0 ... < 5 bar	stepwise	0,1 %	above 1000 bar with pressure multiplier
	5 ... < 50 bar	change of	0,03 %	
	50 ... 1000 bar	pressure load	0,01 %	
	1000 ... 5000 bar		0,05 %	



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Measured Quantity / Instrument or Gauge	Measurement Range	Measurement Conditions	Best Measurement Uncertainty $\pm$ <sup>1)</sup>	Remarks
<b>Force</b> Calibration of piezoelectric force sensors	0,05 ... < 2 kN	stepwise / continuous change of force load	0,2 %, but not less than 0,4 N	50 kN K-BNME
	2 ... 50kN		0,15 %	
	1 ... 100 kN		0,2 %	100 kN K-BNME
	1 ... < 50 kN		0,2 %	300 kN K-BNME
	50 ... 300 kN		0,15 %	
	10 ... < 50 kN		0,2 %	
<b>Electrical charge</b> Generation and calibration	50 ... 500 kN	0,15 %	500 kN K-BNME	
	1 ... < 20 pC	0,007 pC		
	20 ... < 50 pC	80 ppm + 0,006 pC		
	50 ... < 200 pC	170 ppm		
	200 ... < 48000 pC	150 ppm		
<b>Voltage (DC)</b>	48 ... 3100 nC	190 ppm		
	0 ... < 0,12 V	6,8 ppm + 2,7 $\mu$ V		
	0,12 ... < 1,2 V	14,2 ppm + 4,3 $\mu$ V		
	1,2 ... < 12 V	17,5 ppm + 2,7 $\mu$ V		
<b>Voltage (AC)</b>	12 ... < 100 V	14,2 ppm + 387 $\mu$ V		
	0 ... < 0,12 V	1 Hz ... 1 kHz	251 $\mu$ V	
	0,12 ... < 1,2 V	1 Hz ... 1 kHz	15 ppm + 264 $\mu$ V	
	1,2 ... < 12 V	1 Hz ... 1 kHz	51 ppm + 516 $\mu$ V	
	12 ... < 30 V	1 Hz ... 1 kHz	150 ppm + 5,1 mV	
	0 ... < 0,33 Vpp	1 Hz ... 1 kHz	708 $\mu$ Vpp	
	0,33 ... < 3,3 Vpp	1 Hz ... 1 kHz	53 ppm + 723 $\mu$ Vpp	
	3,3 ... < 33 Vpp	1 Hz ... 1 kHz	130 ppm+1,2 mVpp	
33 ... 85 Vpp	1 Hz ... 1 kHz	188 ppm+ 14 mVpp		



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<b>Current (DC)</b>	0 ... < 0,37 mA		4,6 ppm + 34 nA	
	0,37 ... < 1,4 mA		23,6 ppm + 27 nA	
	1,4 ... < 4,5 mA		28 ppm + 50 nA	
	4,5 ... < 144 mA		35,4 ppm + 14,5 nA	
	144 ... 1000 mA		32,7 ppm + 3,2 $\mu$ A	
<b>Resistance (DC)</b>	0,01 ... < 12 $\Omega$		19,7 ppm + 122 $\mu\Omega$	
	12 ... < 120 $\Omega$		19,4 ppm + 1,2 m $\Omega$	
	0,12 ... < 1,2 k $\Omega$		15,3 ppm + 1,1 m $\Omega$	
	1,2 ... < 12 k $\Omega$		15,3 ppm + 11 m $\Omega$	
	12 ... < 120 k $\Omega$		16 ppm + 100 m $\Omega$	
	0,12 ... < 1,2 M $\Omega$		20 ppm + 4,1 $\Omega$	
	1,2 ... < 12 M $\Omega$		75 ppm + 102 $\Omega$	
	12 ... 120 M $\Omega$		0,1 % + 1,8 k $\Omega$	
<b>Capacitance</b>	1 ... < 1000 pF	1 kHz	29 ppm	
	1 ... < 100 nF	1 kHz	34 ppm	
	100 ... < 1000 nF	1 kHz	113 ppm	
	1 ... < 10 pF	50 Hz ... 20 kHz	85 ppm	
	10 ... < 100 pF	50 Hz ... 20 kHz	41 ppm	
	100 ... < 1000 pF	50 Hz ... 20 kHz	34 ppm	
	1 ... < 10 nF	50 Hz ... 20 kHz	34 ppm	
	10 ... < 100 nF	50 Hz ... 20 kHz	123 ppm	
	100 ... 1000 nF	50 Hz ... 10 kHz	455 ppm	

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