



SCS Directory

Accreditation number: SCS 0049

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

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SCS Calibration Laboratory
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Internet: 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
(Accredited bodies)

Scope of accreditation as of 23.10.2024

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 $\pm$ ¹⁾	Remarks
Overpressure in fluids 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 %	
Overpressure in fluids 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 $\pm$ ¹⁾	Remarks
Force Calibration of piezoelectric force sensors	0,5 ... 2,5 N	continuous change of force load	0,75 % + 5 mN	1 kN K-BNME
	< 2,5 ... 1000 N		0,25 % + 5 mN	
	0,05 ... < 2 kN	stepwise / continuous change of force load	0,2 %, but not less than 0,4 N	50 kN K-BNME
	2 ... 50 kN		0,15 %	
	1 ... 100 kN		0,2 %	100 kN K-BNME
	1 ... < 50 kN 50 ... 300 kN		0,2 % 0,15 %	300 kN K-BNME
Electrical charge Generation and calibration	10 ... < 50 kN 50 ... 500 kN		0,2 % 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	
	48 ... 3100 nC		190 ppm	
Voltage (DC)	0 ... < 0,12 V		6,8 ppm + 2,7 μ V	
	0,12 ... < 1,2 V		14,2 ppm + 4,3 μ V	
	1,2 ... < 12 V		17,5 ppm + 2,7 μ V	
	12 ... < 100 V		14,2 ppm + 387 μ V	
Voltage (AC)	0 ... < 0,12 V	1 Hz ... 1 kHz	251 μ V	
	0,12 ... < 1,2 V	1 Hz ... 1 kHz	15 ppm + 264 μ V	
	1,2 ... < 12 V	1 Hz ... 1 kHz	51 ppm + 516 μ V	
	12 ... < 30 V	1 Hz ... 1 kHz	150 ppm + 5,1 mV	
	0 ... < 0,33 Vpp	1 Hz ... 1 kHz	708 μ Vpp	
	0,33 ... < 3,3 Vpp	1 Hz ... 1 kHz	53 ppm + 723 μ 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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Measured Quantity / Instrument or Gauge	Measurement Range	Measurement Conditions	Best Measurement Uncertainty $\pm$ ¹⁾	Remarks
Current (DC)	0 ... < 0,37 mA 0,37 ... < 1,4 mA 1,4 ... < 4,5 mA 4,5 ... < 144 mA 144 ... 1000 mA		4,6 ppm + 34 nA 23,6 ppm + 27 nA 28 ppm + 50 nA 35,4 ppm + 14,5 nA 32,7 ppm + 3,2 μ A	
Resistance (DC)	0,01 ... < 12 Ω 12 ... < 120 Ω 0,12 ... < 1,2 k Ω 1,2 ... < 12 k Ω 12 ... < 120 k Ω 0,12 ... < 1,2 M Ω 1,2 ... < 12 M Ω 12 ... 120 M Ω		19,7 ppm + 122 $\mu\Omega$ 19,4 ppm + 1,2 m Ω 15,3 ppm + 1,1 m Ω 15,3 ppm + 11 m Ω 16 ppm + 100 m Ω 20 ppm + 4,1 Ω 75 ppm + 102 Ω 0,1 % + 1,8 k Ω	
Capacitance	1 ... < 1000 pF 1 ... < 100 nF 100 ... < 1000 nF 1 ... < 10 pF 10 ... < 100 pF 100 ... < 1000 pF 1 ... < 10 nF 10 ... < 100 nF 100 ... 1000 nF	1 kHz 1 kHz 1 kHz 50 Hz ... 20 kHz 50 Hz ... 20 kHz 50 Hz ... 20 kHz 50 Hz ... 20 kHz 50 Hz ... 20 kHz 50 Hz ... 10 kHz	29 ppm 34 ppm 113 ppm 85 ppm 41 ppm 34 ppm 34 ppm 123 ppm 455 ppm	

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