



Schweizerische Eidgenossenschaft
Confédération suisse
Confederazione Svizzera
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Federal Department of Economic Affairs,
Education and Research EAER
State Secretariat for Economic Affairs SECO
Swiss Accreditation Service SAS

Swiss Confederation

Based on the Accreditation and Designation Ordinance dated 17 June 1996 and on the advice of the Federal Accreditation Commission, the Swiss Accreditation Service (SAS) grants to

Kistler Instrumente AG
SCS Calibration Laboratory
Eulachstrasse 22
8408 Winterthur



Period of accreditation:
28.08.2016 until 27.08.2021
(1st accreditation: 05.10.1994)

the accreditation as

Calibration laboratory for pressure, force and electrical quantities

International standard: ISO/IEC 17025:2005
Swiss standard: SN EN ISO/IEC 17025:2005

3003 Berne, 23.08.2016
Swiss Accreditation Service SAS

Head of SAS
Konrad Flück

SAS is a signatory of the multilateral agreements of the European co-operation for Accreditation (EA) for the fields of testing, calibration, inspection and certification of management systems, certification of personnel and certification of products, processes and services, of the International Accreditation Forum (IAF) for the fields of certification of management systems and certification of products, processes and services and of the International Laboratory Accreditation Cooperation (ILAC) for the fields of testing and calibration.

accreditation



SCS Directory

Accreditation number: SCS 0049

International standard: ISO/IEC 17025:2005
Swiss standard: SN EN ISO/IEC 17025:2005

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Initial accreditation: 05.10.1994
Current accreditation: 28.08.2016 to 27.08.2021
Scope of accreditation see: www.sas.admin.ch
(Accredited bodies)

Scope of accreditation as of 28.08.2016

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 bar ... < 10 bar		0,06 %	With pressure multiplier
	10 bar ... < 100 bar		0,03 %	
	100 bar ... < 1000 bar		0,01 %	
	1000 bar ... 8000 bar		0,05 %	
Absolute pressure in fluids Calibration of piezoresistive pressure sensors	0 bar ... < 5 bar		0,1 %	
	5 bar ... < 50 bar		0,03 %	
	50 bar ... < 1000 bar		0,01 %	
	1000 bar ... 5000 bar		0,05 %	
Force Calibration of piezoelectric force sensors	0,1 kN ... < 2 kN		0,2 %, but not less than 0,8 N	
	2 kN ... 200 kN		0,15 %	



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Measured Quantity / Instrument or Gauge	Measurement Range	Measurement Conditions	Best Measurement Uncertainty \pm ¹⁾	Remarks
Electrical charge Generation and calibration	1pC ... <20pC		0,007pC	
	20pC ... <50pC		80ppm + 0,006pC	
	50pC ... <200pC		170ppm	
	200pC ... <48'000pC		150ppm	
	48'000pC ... 3'100'000pC		190ppm	
Voltage (DC)	<0,12V		6,8ppm + 2,7 μ V	
	0,12V ... <1,2V		14,2ppm + 4,3 μ V	
	1,2 ... <12V		17,5ppm + 2,7 μ V	
	12 ... <100V		14,2ppm + 387 μ V	
Voltage (AC)	<0,12V	1Hz ... 1kHz	251 μ V	
	0,12V ... <1,2V	1Hz ... 1kHz	15ppm + 264 μ V	
	1,2 ... <12V	1Hz ... 1kHz	51ppm + 516 μ V	
	12V ... 30V	1Hz ... 1kHz	150ppm + 5,1mV	
	<0,33Vpp	1Hz ... 1kHz	708 μ V	
	0,33Vpp ... 3,3Vpp	1Hz ... 1kHz	53ppm + 723 μ V	
	3,3Vpp ... <33Vpp	1Hz ... 1kHz	130ppm + 1,2mVpp	
	33Vpp ... 85Vpp	1Hz ... 1kHz	188ppm + 14mVpp	
Current (DC)	<0,37mA		4,6ppm + 34nA	
	0,37mA ... <1,4mA		23,6ppm + 27nA	
	1,4mA ... <4,5mA		28ppm + 50nA	
	4,5mA ... <144mA		35,4ppm + 14,5nA	
	144mA ... 1000mA		32,7ppm + 3,2 μ A	
Resistance (DC)	0,01 Ω ... <12 Ω		19,7ppm + 122 $\mu\Omega$	
	12 Ω ... 120 Ω		19,4ppm + 1,2m Ω	
	120 Ω ... 1,2k Ω		15,3ppm + 1,1m Ω	
	1,2k Ω ... <12k Ω		15,3ppm + 11m Ω	
	12k Ω ... <120k Ω		16ppm + 100m Ω	
	120k Ω ... <1,2M Ω		20ppm + 4,1 Ω	
	1,2M Ω ... <12M Ω		75ppm + 102 Ω	
	12M Ω ... 120M Ω		0,1% + 1,8k Ω	



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Measured Quantity / Instrument or Gauge	Measurement Range	Measurement Conditions	Best Measurement Uncertainty \pm ¹⁾	Remarks
Capacitance	1pF ... 1nF	@ 1kHz	29ppm	
	1nF ... 100nF	@ 1kHz	34ppm	
	100nF ... 1000nF	@ 1kHz	113ppm	
	1pF ... 10pF	50 Hz ... 20kHz	85ppm	
	10pF ... 100pF	50Hz ... 20kHz	41ppm	
	100pF ... 1nF	50Hz ... 20kHz	34ppm	
	1nF ... 10nF	50Hz ... 20kHz	34ppm	
	10nF ... 100nF	50Hz ... 20kHz	123ppm	
	100nF ... 1000nF	50Hz ... 10kHz	455ppm	

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