Schweizerische Eidgenossenschaft
Confédération suisse
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Swiss Confederation

Federal Department of Economic Affairs,
Education and Research EAER
State Secretariat for Economic Affairs SECO
Swiss Accreditation Service SAS

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:
28.08.2021 until 27.08.2026
(1st accreditation: 05.10.1994)

the accreditation as

Calibration laboratory for pressure, force and electrical quantities

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

3003 Berne, 24.06.2021
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, calibration and inspection.

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SCS Directory

Accreditation number: SCS 0049

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

Kistler Instrumente AG
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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 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 ± [1)]	Remarks
Overpressure	1 ... < 10 bar	stepwise	0,06 %	above 1000 bar
in fluids	10 ... < 100 bar	change of	0,03 %	with pressure
Calibration of	100 ... 1000 bar	pressure load	0,01 %	multiplier
piezoelectric	1000 ... 8000 bar		0,05 %	
pressure sensors				
Overpressure	0 ... < 5 bar	stepwise	0,1 %	above 1000 bar
in fluids	5 ... < 50 bar	change of	0,03 %	with pressure
Calibration of	50 ... 1000 bar	pressure load	0,01 %	multiplier
piezoresistive	1000 ... 5000 bar		0,05 %	
pressure sensors				

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 ± [1)]	Remarks
Force	0,05 ... < 2 kN	stepwise /	0,2 %, but not less	50 kN K-BNME
Calibration of		continuous	than 0,4 N	
piezoelectric	2 … 50kN	change of	0,15 %	
force sensors		force load		
	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 %	500 kN K-BNME
	50 … 500 kN		0,15 %	
Electrical charge	1 ... < 20 pC		0,007 pC	
Generation and	20 ... < 50 pC		80 ppm + 0,006 pC	
calibration	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 µV	
	0,12 … < 1,2 V		14,2 ppm + 4,3 µV	
	1,2 …< 12 V		17,5 ppm + 2,7 µV	
	12 … < 100 V		14,2 ppm + 387 µV	
Voltage (AC)	0 … < 0,12 V	1 Hz ... 1 kHz	251 µV	
	0,12 … < 1,2 V	1 Hz ... 1 kHz	15 ppm + 264 µV	
	1,2 …< 12 V	1 Hz ... 1 kHz	51 ppm + 516 µV	
	12 … < 30 V	1 Hz ... 1 kHz	150 ppm + 5,1 mV	
	0 … < 0,33 Vpp	1 Hz ... 1 kHz	708 µVpp	
	0,33 …< 3,3 Vpp	1 Hz ... 1 kHz	53 ppm + 723 µVpp	
	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 ± [1)]	Remarks
Current (DC)	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 µA	
Resistance (DC)	0,01 ... < 12 Ω		19,7 ppm + 122 µΩ	
	12 ... < 120 Ω		19,4 ppm + 1,2 mΩ	
	0,12 ... < 1,2 kΩ		15,3 ppm + 1,1 mΩ	
	1,2 ... < 12 kΩ		15,3 ppm + 11 mΩ	
	12 ... < 120 kΩ		16 ppm + 100 mΩ	
	0,12 ... < 1,2 MΩ		20 ppm + 4,1 Ω	
	1,2 ... < 12 MΩ		75 ppm + 102 Ω	
	12 ... 120 MΩ		0,1 % + 1,8 kΩ	
Capacitance	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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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.