



Schweizerische Eidgenossenschaft
Confédération suisse
Confederazione Svizzera
Confederaziun svizra

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

Kistler Instrumente AG
SCS Calibration Laboratory
Eulachstrasse 22
Postfach
8408 Winterthur

Head: Dr. Georg Schading
Responsible for MS: Jürg Kunz
Telephone: +41 52 224 11 11
E-Mail: accreditation@kistler.com
Internet: www.kistler.com
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 27.08.2018

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	Stepwise change of pressure load	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	Continuous change of pressure load	0,1 %	with pressure multiplier
	5 bar ... <50 bar		0,03 %	
	50 bar ... <1000 bar		0,01 %	
	1000 bar ... 5000 bar		0,05 %	



SCS Directory

Accreditation number: SCS 0049

Measured Quantity / Instrument or Gauge	Measurement Range	Measurement Conditions	Best Measurement Uncertainty \pm ¹⁾	Remarks
Force Calibration of piezoelectric force sensors	0,05 kN ... <2 kN	Stepwise change of force load	0,2 %, but not less than 0,4 N	50 kN K-BNME
	2 kN ... <50kN		0,15 %	50 kN K-BNME
	1 kN ... <100 kN		0,2 %	100 kN K-BNME
	10 kN ... <50 kN		0,2 %	500 kN K-BNME
	50 kN ... <500 kN		0,15 %	500 kN K-BNME
	1 kN ... <50kN	Continuous change of force load	0,15 %	50 kN K-BNME
	1 kN ... <100 kN		0,2 %	100 kN K-BNME
	10 kN ... <50 kN		0,2 %	500 kN K-BNME
	50 kN ... <500 kN		0,15 %	500 kN K-BNME
Electrical charge Generation and calibration	1 pC ... <20 pC		0,007 pC	
	20 pC ... <50 pC		80 ppm + 0,006 pC	
	50 pC ... <200 pC		170 ppm	
	200 pC ... <48'000 pC		150 ppm	
	48'000 pC ... 3'100 nC		190 ppm	
Voltage (DC)	<0,12 V		6,8 ppm + 2,7 μ V	
	0,12 ... <1,2 V		14,2 ppm + 4,3 μ V	
	1,2 V ... <12 V		17,5 ppm + 2,7 μ V	
	12 V ... <100 V		14,2 ppm + 387 μ V	
Voltage (AC)	<0,12 V	1Hz ... 1kHz	251 μ V	
	0,12 ... <1,2 V	1Hz ... 1kHz	15 ppm + 264 μ V	
	1,2 V ... <12 V	1Hz ... 1kHz	51 ppm + 516 μ V	
	12 V ... <30 V	1Hz ... 1kHz	150 ppm + 5,1 mV	
	<0,33 Vpp	1Hz ... 1kHz	708 μ Vpp	
	0,33 Vpp ... <3,3 Vpp	1Hz ... 1kHz	53 ppm + 723 μ Vpp	
	3,3 Vpp ... <33 Vpp	1Hz ... 1kHz	130 ppm + 1,2 mVpp	
	33 Vpp ... 85 Vpp	1Hz ... 1kHz	188 ppm + 14 mVpp	



SCS Directory

Accreditation number: SCS 0049

Measured Quantity / Instrument or Gauge	Measurement Range	Measurement Conditions	Best Measurement Uncertainty \pm ¹⁾	Remarks
Current (DC)	<0,37 mA		4,6 ppm + 34 nA	
	0,37 mA ... <1,4 mA		23,6 ppm + 27 nA	
	1,4 mA ... <4,5 mA		28 ppm + 50 nA	
	4,5 mA ... <144 mA		35,4 ppm + 14,5 nA	
	144 mA ... 1000 mA		32,7 ppm + 3,2 μ A	
Resistance (DC)	0,01 Ω ... <12 Ω		19,7 ppm + 122 $\mu\Omega$	
	12 Ω ... <120 Ω		19,4 ppm + 1,2 m Ω	
	120 Ω ... <1,2 k Ω		15,3 ppm + 1,1 m Ω	
	1,2 k Ω ... <12 k Ω		15,3 ppm + 11 m Ω	
	12 k Ω ... <120 k Ω		16 ppm + 100 m Ω	
	120 k Ω ... <1,2 M Ω		20 ppm + 4,1 Ω	
	1,2 M Ω ... <12 M Ω		75 ppm + 102 Ω	
	12 M Ω ... 120 M Ω		0,1 % + 1,8 k Ω	
Capacitance	1 pF ... < 1 nF	@ 1kHz	29 ppm	
	1 nF ... < 100 nF	@ 1kHz	34 ppm	
	100 nF ... < 1000 nF	@ 1kHz	113 ppm	
	1 pF ... < 10 pF	50 Hz ... 20 kHz	85 ppm	
	10 pF ... < 100 pF	50 Hz ... 20 kHz	41 ppm	
	100 pF ... < 1 nF	50 Hz ... 20 kHz	34 ppm	
	1 nF ... < 10 nF	50 Hz ... 20 kHz	34 ppm	
	10 nF ... < 100 nF	50 Hz ... 20 kHz	123 ppm	
	100 nF ... 1000 nF	50 Hz ... 10 kHz	455 ppm	

* / * / * / * / *