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Accreditation number: STS 0009

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

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Initial accreditation: 02.12.1994
Current accreditation: 30.06.2020 to 29.06.2025
Scope of accreditation see: www.sas.admin.ch
(Accredited bodies)

Scope of accreditation as of 23.03.2022

Testing laboratory for Electromagnetic Compatibility (EMC), Electrical Safety and Environmental Simulation Tests for Electronic Products and Scales

Group of products or materials, field of activity	Principle of measurement ²⁾ (characteristics, measuring ranges, type of test)	Test methods, remarks (national, international standards, in-house test methods)
Electrical equipment and Systems Products for information technology Safety regulations for electrical measuring, controlling, and laboratory equipment	Electrical security <i>Electrical safety tests</i> Security requirements General requirements Particular requirements for laboratory equipment for the heating of materials Particular requirements for laboratory centrifuges	 EN 60950-1 IEC 60950-1 EN 61010-1 IEC 61010-1 EN 61010-2-010 IEC 61010-2-010 EN 61010-2-020 ^{S)} IEC 61010-2-020 ^{S)}



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Machines and electrical equipment of machines Safety of machines	Particular requirements for testing and measuring circuits	EN 61010-2-030 IEC 61010-2-030
	Particular requirements for laboratory equipment for mixing and stirring	EN 61010-2-051 IEC 61010-2-051
	Particular requirements for automatic and semi-automatic laboratory equipment for analysis and other purposes	EN 61010-2-081 IEC 61010-2-081
	Particular requirements for in vitro diagnostic (IVD) medical equipment	EN 61010-2-101 IEC 61010-2-101
	Particular requirements for control equipment	EN 61010-2-201 IEC 61010-2-201
	General safety regulations	EN 60204-1 IEC 60204-1
	Basic terminology, methodology	ISO 12100-1 EN ISO 12100-1
	Technical principles and specifications	ISO 12100-2 EN ISO 12100-2
	Principles for risk assessment	ISO 14121-1 EN ISO 14121-1
	Risk assessment and risk reduction	ISO 12100 EN ISO 12100
Electrical equipment and installations	EMC	
	Emission, Basic standards	
	Harmonics I ≤ 16A	EN 61000-3-2 IEC 61000-3-2
	Voltage fluctuations and flicker I ≤ 16A	EN 61000-3-3 IEC 61000-3-3
	Disturbance voltages and currents frequency range: f = 0.15 - 30MHz	EN 55016-2-1 CISPR 16-2-1
	Disturbance field strength frequency range: f = 30 - 1000MHz Distance R = 3m Test facility: FAR	EN 55016-2-1 CISPR 16-2-1 EN 55016-2-3 ^{x)} CISPR 16-2-3 ^{x)}

1) Scope of accreditation type A (fix)

2) Scope of accreditation type B (flexible)

3) Scope of accreditation type C (flexible)

Definition of flexibility see SAS Document 741



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Group of products or materials, field of activity	Principle of measurement ²⁾ (characteristics, measuring ranges, type of test)	Test methods, remarks (national, international standards, in-house test methods)
General	Disturbance field strength frequency range: $f = 1 - 6$ GHz Distance $R = 3$ m	EN 55016-2-3 CISPR 16-2-3
	EMC Immunity, basic standards	
	Electrostatic discharge (ESD)	EN 61000-4-2 IEC 61000-4-2
	Radio-frequency electromagnetic fields frequency range: $f = 26 - 6000$ MHz	EN 61000-4-3 IEC 61000-4-3
	Rapid electrical fast transients (burst)	EN 61000-4-4 EN 61000-4-4
	Surge immunity	EN 61000-4-5 IEC 61000-4-5
	Conducted disturbances, induced by radio-frequency fields	EN 61000-4-6 IEC 61000-4-6
	Magnetic fields with power frequencies	EN 61000-4-8 IEC 61000-4-8
	Voltage dips, short interruptions, and voltage variations	EN 61000-4-11 IEC 61000-4-11
		EMC of products Generic standards
	Product standards	EMC-testing according to product standards which are included completely by the generic standards above. Among others:
Non-automatic weighing instruments	Immunity Radio-frequency electromagnetic fields. Frequency range: $f = 26 - 2000$ MHz	EN 45501 OIML R-76
Industrial, scientific and medical (ISM) equipment	Emission	EN 55011 ^{x)} - Group 1 CISPR 11 A ^{x)} - Group 1

1) Scope of accreditation type A (fix)

2) Scope of accreditation type B (flexible)

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Products for information technology	Emission	EN 55022 ^{X)} CISPR 22 ^{X)} EN 55032 ^{X)} CISPR 32 ^{X)}
Electrical equipment for process control and laboratory use	Emission and Immunity	EN 61326-1 ^{X)} IEC 61326-1 ^{X)}
Medical electrical equipment	Collateral standard: EMC	EN 60601-1-2 ^{X)} IEC 60601-1-2 ^{X)}
Electrical equipment and installations	Environment simulation	
	Climate simulation	
	<i>Temperature: -60°C to +180°C</i>	EN 60068-2-1 IEC 60068-2-1 EN 60068-2-2 IEC 60068-2-2 EN 60068-2-14 IEC 60068-2-14 EN 60068-2-48 IEC 60068-2-48
	<i>Humidity: 10 % - 95 % r. h. by temperature 5°C to 95°C</i>	EN 60068-2-78 IEC 60068-2-78 EN 60068-2-30 IEC 60068-2-30
	<i>Salt spray test</i>	ISO 9227 EN ISO 9227 EN 60068-2-11 IEC 60068-2-11 EN 60068-2-52 IEC 60068-2-52 MIL-Std. 810 Method 509
	Determination of resistance to humidity - Part 2: Procedure for exposing test specimens in condensation water atmospheres	EN ISO 6270-2 (former DIN 50017 humidity test) ISO 6270-2
	IP test	EN 60529 IEC 60529
Electrical equipment and installations	Mechanical stress	
	Vibration	EN 60068-2-6 IEC 60068-2-6 EN 60068-2-64 IEC 60068-2-64



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Non-automatic weighting instruments	Shock	EN 60068-2-27 IEC 60068-2-27 EN 60068-2-31 IEC 60068-2-31
	<i>Transportation tests</i>	EN 22248 MIL-Std. 810 Method 514 MIL-Std. 810 Method 516 ISTA 1A ISTA 2A ISTA 3A ASTM D5276 ASTM D642 ASTM D999 ASTM D4728 ASTM D4169 ASTM D4332 ASTM D6344
	Metrological aspects	EN 45501 ^{C)} OIML R-76 ^{C)}

Restrictions and remarks					
S)	Exception: Protection against liberated gases, explosion and implosion and escape of microbiological materials				
X)	Restriction: Radiated emissions with FAR, 3m measurement separation according to EN 55016-2-3				
C)	Test Capabilities for non-automatic weighting instruments under OIML-CS				
		Class I	Class II	Class III	Class IIII
	Maximum test capacity (kg)	20	120	120	-
	Maximum number of verification scale intervals (Max/e)	1'000'000	100'000	10'000	-
	Minimum verification scale intervals (g)	0.001	0.001	0.1	-



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Abbreviation	Signification
FAR	Fully Anechoic Room

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