



STS Directory

Accreditation number: STS 0034

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

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Initial accreditation: 27.09.1993
Current accreditation: 20.10.2018 to 19.10.2023
Scope of accreditation see: www.sas.admin.ch (Accredited bodies)

Scope of accreditation as of 26.04.2021

Testing laboratory for electromagnetic compatibility (EMC), electrical safety tests and telecommunication

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	<p>Elektromagnetic Compatibility</p> <p>Emission, Basic standards:</p> <p>Part 3-2: Harmonic current emissions $I \leq 16$ A</p> <p>Part 3-12: Limits for harmonic currents produced by equipment connected to public low-voltage systems with input current >16 A and ≤ 75 A per phase</p> <p>Part 3-3: Voltage changes, voltage fluctuations and flicker ≤ 16 A</p>	<p>According to 2014/30/EU and SR 734.5</p> <p>EN 61000-3-2, IEC 61000-3-2</p> <p>EN 61000-3-12, IEC 61000-3-12</p> <p>EN 61000-3-3, IEC 61000-3-3</p>



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	<p>Part 3-11: Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems - Equipment with rated current ≤ 75 A and subject to conditional connection</p> <p>Guideline Harmonic current</p> <p>Disturbance voltages and currents Frequency range: 9 kHz - 30 MHz</p> <p>Disturbance power Frequency range: $f = 30 - 1000$ MHz</p> <p>Disturbance field strength Frequency range: $f = 9$ kHz – 18 GHz Measuring distance $R = 10$ m</p> <p>Immunity, Basic standards:</p> <p>Part 4-2: Electrostatic discharge</p> <p>Part 4-3: High frequency electromagnetic fields Frequency range: $f = 26$ MHz – 18000 MHz</p> <p>Part 4-4: Electrical fast transients / Burst</p> <p>Part 4-5: Surge voltage / Surge</p> <p>Part 4-6: Conducted Rf disturbances, Frequency range: $f = 0.15$ MHz – 250 MHz</p> <p>Part 4-8: Power frequency magnetic fields</p> <p>Part 4-9: Pulse magnetic fields</p> <p>Part 4-10: Damped Oscillating magnetic fields</p> <p>Part 4-11: Voltage dips, short interruptions and voltage variations $I \leq 16$ A</p> <p>Part 4-12: Ring Wave</p>	<p>EN 61000-3-11, IEC 61000-3-11</p> <p>EN 61000-4-7, IEC 61000-4-7</p> <p>EN 55016-1-1, CISPR 16-1-1 EN 55016-1-2, CISPR 16-1-2, EN 55016-2-1, CISPR 16-2-1</p> <p>EN 55016-1-1, CISPR 16-1-1 EN 55016-1-3, CISPR 16-1-3 EN 55016-2-2, CISPR 16-2-2</p> <p>EN 55016-1-1, CISPR 16-1-1 EN 55016-1-4, CISPR 16-1-4 EN 55016-2-3, CISPR 16-2-3</p> <p>EN 61000-4-2, IEC 61000-4-2</p> <p>EN 61000-4-3, IEC 61000-4-3</p> <p>EN 61000-4-4, IEC 61000-4-4</p> <p>EN 61000-4-5, IEC 61000-4-5</p> <p>EN 61000-4-6, IEC 61000-4-6</p> <p>EN 61000-4-8, IEC 61000-4-8</p> <p>EN 61000-4-9, IEC 61000-4-9</p> <p>EN 61000-4-10, IEC 61000-4-10</p> <p>EN 61000-4-11, IEC 61000-4-11</p> <p>EN 61000-4-12, IEC 61000-4-12</p>



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General	Part 4-13: Harmonics and interharmonics including mains signalling at a.c. power port, low frequency immunity tests	EN 61000-4-13, IEC 61000-4-13
	Part 4-16: Test for immunity to conducted, common mode disturbances in the frequency range 0 Hz to 150 kHz	EN 61000-4-16, IEC 61000-4-16
	Part 4-18: Damped oscillatory wave	EN 61000-4-18, IEC 61000-4-18
	Part 4-19: Test for immunity to conducted, differential mode disturbances and signalling in the frequency range 2 kHz to 150 kHz at a.c. power ports	EN 61000-4-19, IEC 61000-4-19
	Part 4-28: Variation of power frequency, immunity test for equipment with input current ≤ 16 A per phase	EN 61000-4-28, IEC 61000-4-28
	Part 4-29: Voltage dips, short interruptions and voltage variations on d.c. input power port	EN 61000-4-29, IEC 61000-4-29
	Part 4-34: Voltage dips, short interruptions and voltage variations immunity tests for equipment with mains current > 16 A per phase	EN 61000-4-34, IEC 61000-4-34
General	EMC of products ("Generic Standards")	EN 61000-6-1, IEC 61000-6-1 EN 61000-6-2, IEC 61000-6-2 EN 61000-6-3, IEC 61000-6-3 EN 61000-6-4, IEC 61000-6-4
	Part 6-7: Immunity requirements for equipment intended to perform functions in a safety-related system (functional safety) in industrial locations	EN 61000-6-7, IEC 61000-6-7
Telecommunication network equipment	Product standards: EMC requirements	EMC tests according to product standards, which are covered fully by basic standards above. Among others: ETSI EN 300 386



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Electrical equipment for measurement, control and laboratory use	Part 1: General requirements	EN 61326-1, IEC 61326-1
Sensitive test and measurement equipment for EMC unprotected applications	Part 2-1: Particular requirements	EN 61326-2-1, IEC 61326-2-1
Portable test, measuring and monitoring equipment used in low-voltage distribution systems	Part 2-2: Particular requirements	EN 61326-2-2, IEC 61326-2-2
Transducers with integrated or remote signal conditionin	Part 2-3: Particular requirements	EN 61326-2-3, IEC 61326-2-3
Medical invitro diagnosis equipment (IVD)	Part 2-6: Particular requirements	EN 61326-2-6, IEC 61326-2-6
Industrial, scientific and medical equipment - Radio-frequency disturbance characteristics (ISM equipment)	Radio-frequency disturbance characteristics	EN 55011, CISPR 11
Vehicles, boats and internal combustion engines - Radio disturbance characteristics - Limits and methods of measurement for the protection of off-board receivers	Radio disturbance characteristics	EN 55012, CISPR 12
Requirements for household appliances, electric tools and similar apparatus	Part 1: Emission	EN 55014-1, CISPR 14-1
Requirements for household appliances, electric tools and similar apparatus	Part 2: Immunity	EN 55014-2, CISPR 14-2
Information technology equipment - Radio disturbance characteristics - Limits and methods of measurement	Radio disturbance characteristics	EN 55022, CISPR 22
Electromagnetic compatibility of multimedia equipment	Emission requirements	EN 55032, CISPR 32
Electromagnetic compatibility of multimedia equipment	Immunity requirements	EN 55035, CISPR 35
Electrical equipment of machines	Part 1: EMC according to Generic standards	EN 60204-1, IEC 60204-1
Medical electrical equipment	Part 1-2: General requirements for basic safety and essential performance - Electromagnetic disturbances - Requirements and tests	EN 60601-1-2, IEC 60601-1-2



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Uninterruptible power systems (UPS)	Part 2: Electromagnetic compatibility (EMC) requirements	EN 62040-2, IEC 62040-2
Adjustable speed electrical power drive systems	Part 3: EMC requirements and specific test methods	EN 61800-3, IEC 61800-3
Radio equipment – short range devices	Short Range Devices (SRD) operating in the frequency range 25 MHz to 1 000 MHz; Part 1: Technical characteristics and methods of measurement	ETSI EN 300 220-1 ^{K1)}
	Part 2: Non specific radio equipment	ETSI EN 300 220-2
	Part 3-1: Low duty cycle high reliability equipment, social alarms equipment operating on designated frequencies (869,200 MHz to 869,250 MHz)	ETSI EN 300 220-3-1
	Part 3-2: Wireless alarms operating in designated LDC/HR frequency bands 868,60 MHz to 868,70 MHz, 869,25 MHz to 869,40 MHz, 869,65 MHz to 869,70 MHz	ETSI EN 300 220-3-2
	Part 4: Metering devices operating in designated band 169,400 MHz to 169,475 MHz	ETSI EN 300 220-4
	Short Range Devices (SRD); Radio equipment in the frequency range 9 kHz to 25 MHz and inductive loop systems in the frequency range 9 kHz to 30 MHz	ETSI EN 300 330
	Short Range Devices (SRD); Radio equipment to be used in the 1 GHz to 40 GHz frequency range	ETSI EN 300 440
	Wideband transmission systems; Data transmission equipment operating in the 2,4 GHz band	ETSI EN 300 328
	Broadband Radio Access Networks (BRAN); 5 GHz high performance RLAN	ETSI EN 301 893 ^{K3)}
Cellular	Global System for Mobile communications (GSM); Mobile Stations (MS) equipment	ETSI EN 301 511

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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Satellite navigation	IMT cellular networks; Harmonised Standard for access to radio spectrum; Part 1: Introduction and common requirements	ETSI EN 301 908-1
	Part 13: Evolved Universal Terrestrial Radio Access (E-UTRA) User Equipment (UE)	ETSI EN 301 908-13
	Satellite Earth Stations and Systems (SES); Global Navigation Satellite System (GNSS) receivers; Radio equipment operating in the 1 164 MHz to 1 300 MHz and 1 559 MHz to 1 610 MHz frequency bands	ETSI EN 303 413
Wireless power transmission	Wireless power transmission systems, using technologies other than radio frequency beam in the 19 - 21 kHz, 59 - 61 kHz, 79 - 90 kHz, 100 - 300 kHz, 6 765 - 6 795 kHz ranges	ETSI EN 303 417
EMC of Radio equipment	Electromagnetic compatibility and Radio spectrum Matters (ERM), Electromagnetic Compatibility (EMC) standard for radio equipment and services, Part 1: Common technical requirements	ETSI EN 301 489-1
	Part 3: Specific Conditions for Short-Range Devices (SRD) Operating on Frequencies between 9 kHz and 40 GHz	ETSI EN 301 489-3
	Part 17: Specific conditions for Wideband data and HIPERLAN equipment	ETSI EN 301 489-17
Electrical equipment in aircrafts		RTCA DO-160 A-G Sections 15-22, 25
Radom in aircrafts		RTCA DO-213
Various products	Military standards	MIL-STD 461 A-G ^{K2)} , MIL-STD 462 A-D ^{K2)} , VG-95373 Parte 1-24
Uniform provisions concerning the approval of vehicles with regard to Electromagnetic compatibility (R10)	Emission Immunity	E/ECE324 Addendum 9 – Regulation No. 10



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	Safety-related testing	According to 2014/35/EU and SR 734.27
Sound and television broadcast receivers and associated equipment Audio, video and similar electronic apparatus	Safety requirements	EN 60065
Safety of machinery - Electrical equipment of machines	Part 1: Safety requirements	EN 60204-1, IEC 60204-1
Household and similar electrical appliances	Part 1: General requirements	EN 60335-1, IEC 60335-1
Medical electrical equipment	Part 1: General requirements for basic safety and essential performance	EN 60601-1, IEC 60601-1
	Part 1-1: General requirements for safety - Collateral standard: Safety requirements for medical electrical systems	EN 60601-1-1, IEC 60601-1-1
Programmable electrical medical systems	Part 1-4: General requirements for safety	EN 60601-1-4, IEC 60601-1-4
Usability	Part 1-6: General requirements for basic safety and essential performance	EN 60601-1-6, IEC 60601-1-6
Alarm systems in medical electrical equipment and medical electrical systems	Part 1-8: General requirements for basic safety and essential performance	EN 60601-1-8, IEC 60601-1-8
Requirements for environmentally conscious design	Part 1-9: General requirements for basic safety and essential performance	EN 60601-1-9, IEC 60601-1-9
Requirements for medical electrical equipment and medical electrical systems used in the home healthcare environment	Part 1-11: General requirements for basic safety and essential performance	EN 60601-1-11, IEC 60601-1-11
Requirements for medical electrical equipment and medical electrical systems intended for use in the emergency medical services environment	Part 1-12: General requirements for basic safety and essential performance	EN 60601-1-12, IEC 60601-1-12
Safety of nerve and muscle stimulators	Part 2-10: Particular requirements for the basic safety and essential performance	EN 60601-2-10, IEC 60601-2-10
Safety of lung ventilators - Critical care ventilators	Part 2-12: Particular requirements	EN 80601-2-12, ISO 80601-2-12



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Surgical, cosmetic, therapeutic and diagnostic laser equipment	Part 2-22: General requirements for basic safety and essential performance	EN 60601-2-22, IEC 60601-2-22
Infusion pumps and controllers	Part 2-24: Particular requirements for the basic safety and essential performance	EN 60601-2-24, IEC 60601-2-24
Equipment for extracorporeally induced lithotripsy	Part 2-36: Particular requirements for the basic safety and essential performance	EN 60601-2-36, IEC 60601-2-36
Ultrasonic medical diagnostic and monitoring equipment	Part 2-37: Particular requirements for the basic safety and essential performance	EN 60601-2-37, IEC 60601-2-37
Respiratory humidifying equipment	Part 2-74: Particular requirements for the basic safety and essential performance	EN 80601-2-74, ISO 80601-2-74
Automatic electrical controls	Part 1: General requirements	EN 60730-1, IEC 60730-1
Temperature sensing controls	Part 2-9: Particular requirements	EN 60730-2-9, IEC 60730-2-9
Information technology equipment - Safety	Part 1: General requirements	EN 60950-1, IEC 60950-1
Information technology equipment – Safety: Equipment to be installed outdoors	Part 22: Particular requirements	EN 60950-22, IEC 60950-22
Audio/video, information and communication technology equipment	Part 1: Safety requirements	EN 62368-1, IEC 62368-1
Safety requirements for electrical equipment for measurement, control, and laboratory use	Part 1: General requirements	EN 61010-1, IEC 61010-1
Laboratory equipment for the heating of Materials	Part 2-010:Particular requirements	EN 61010-2-010, IEC 61010-2-010
Refrigerating equipment	Part 2-011:Particular requirements	EN 61010-2-011, IEC 61010-2-011
Climatic and environmental testing and other temperature conditioning equipment	Part 2-012:Particular requirements	EN 61010-2-12, IEC 61010-2-012
Laboratory centrifuges	Part 2-020:Particular requirements	EN 61010-2-020, IEC 61010-2-020
Equipment having testing or measuring circuits	Part 2-030:Particular requirements	EN 61010-2-030, IEC 61010-2-030
Laboratory equipment for mixing and stirring	Part 2-051:Particular requirements	EN 61010-2-051, IEC 61010-2-051



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Automatic and semi-automatic laboratory equipment for analysis and other purposes	Part 2-081:Particular requirements	EN 61010-2-081, IEC 61010-2-081
In vitro diagnostic (IVD) medical equipment	Part 2-101:Particular requirements	EN 61010-2-101, IEC 61010-2-101
Machinery aspects of equipment	Part 2-120: Particular safety requirements	EN 61010-2-120, IEC 61010-2-120
Control equipment	Part 2-201:Particular requirements	EN 61010-2-201, IEC 61010-2-201
Environmental testing	Environmental simulation tests	
	Degree of protection provided by enclosure (IP Code)	EN 60529, IEC 60529
	Part 1: General and guidance	EN 60068-1, IEC 60068-1
	Part 2-1: Tests - Test A: Cold	EN 60068-2-1, IEC 60068-2-1
	Part 2-2: Tests - Test B: Dry heat	EN 60068-2-2, IEC 60068-2-2
	Part 2-14: Tests - Test N: Change of temperature	EN 60068-2-14, EC 60068-2-14
	Part 2-18: Tests – Test R and guidance: Water	EN 60068-2-18, IEC 60068-2-18
	Part 2-30: Tests - Test Db: Damp heat, cyclic	EN 60068-2-30, IEC 60068-2-30
	Part 2-38: Tests - Test Z/AD: Composite temperature/humidity cyclic test	EN 60068-2-38, IEC 60068-2-38
	Part 2-75: Tests - Test Eh: Hammer tests	EN 60068-2-75, IEC 60068-2-75
	Part 2-78: Tests - Test Cab: Damp heat, steady state	EN 60068-2-78, IEC 60068-2-78
Electrical and electronic household and office equipment	Energy consumption	
	Measurement of low power consumption	EN 62301, IEC 62301
	Part 1: General	EN 62087-1, IEC 62087-1
	Measurement methods	EN 62018, IEC 62018
Audio, video, and related equipment - Determination of power consumption		
Power consumption of information technology equipment		
Electrical and electronic household and office equipment	Measurement of low power consumption	EN 50564



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Electric cooking ranges, hobs, ovens and grills for household use	Methods for measuring performance	EN 50304
Ecodesign requirements for power consumption of electrical and electronic household and office equipment	Requirements for standby and off mode electric power consumption	Commission Regulation (EC) No. 1275/2008
Ecodesign requirements according to directive 2005/32/EC for set-top boxes	Requirements for the power consumption in operation and off mode condition	Commission Regulation (EC) No. 107/2009 Energy regulation (EnV), SR 730.01, Anh. 2.9
Electronic household and office equipment	Requirements for the power consumption	Energy regulation (EnV) SR 730.01, Anh. 2.8
	Requirements for the power consumption in operation and off mode condition, external power supplies up to 250W	Commission Regulation (EC) No. 278/2009 Energy regulation (EnV) SR 730.01, Anh. 2.11
Acoustics	Determination of sound power levels and sound energy levels of noise sources using sound pressure	EN ISO 3746 EN ISO 3744
Photobiological safety of lamps and lamp systems	Guidance for evaluating the photobiological safety of lamps and lamp systems including luminaires	EN 62471, IEC 62471
	Optics and photonics – Operation microscopes – Part 2: Light Hazard from Operation Microscopes used in Ocular Surgery	ISO 10936-2
	Ophthalmic instruments – Fundamental requirements and test methods – Part 2: Light hazard protection	EN ISO 15004-2
	Light Hazard Protection for Ophthalmic Instruments	ANSI Z80.36
	Light Hazard from Operation Microscopes used in Ocular Surgery	ANSI Z80.38
Uniform provisions concerning the approval of vehicles with regard to specific requirements for the electric power train (R100)	Safety-related tests	E/ECE324 Addendum 99 – Regulation No. 100

In case of contradictions in the language versions of the directories, the German version shall apply.



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Limitations and Notes:

- K1) Restriction: Without voice transmission
- K2) Restriction: Without RS105
- K3) Restriction: Without DFS

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