STS Directory **Accreditation number: STS 0034**

International Standard:	ISO/IEC 17025:2017
Swiss Standard:	SN EN ISO/IEC 17025:2017

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First accreditation:	27.09.1993
Current accreditation:	20.10.2023 to 19.10.2028
Directory see:	www.sas.admin.ch (accredited bodies)

Scope of accreditation as per 20.10.2023

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

Product or Material group, Field of activity	**Principle of measurement** [2] **(Characteristics, measuring ranges, type of tests)**	**Test methods, remarks (National, international standards, validated in-house test methods)**
Electrical equipment and systems	**Elektromagnetic Compatibility**	According to 2014/30/EU and SR 734.5
	Emission, Basic standards:	
	Part 3-2: Limits for harmonic current emissions (equipment input current ≤ 16 A per phase)	EN 61000-3-2, IEC 61000-3-2
	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	EN 61000-3-12, IEC 61000-3-12
	Part 3-3: Limitation of voltage changes, voltage fluctuations and flicker in public low-voltager supply systems, for equipment with rated current ≤ 16 A per phase	EN 61000-3-3, IEC 61000-3-3

1) Scope of application Type A (fixed)
2) Scope of application Type B (flexible)
3) Scope of application Type C (flexible)

Definition of flexibility see SAS-Document 741

STS Directory **Accreditation number: STS 0034**

Product or Material group, Field of activity	**Principle of measurement** [2] **(Characteristics, measuring ranges, type of tests)**	**Test methods, remarks (National, international standards, validated in-house test methods)**
	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	EN 61000-3-11, IEC 61000-3-11
	Guideline Harmonic current	EN 61000-4-7, IEC 61000-4-7
	Disturbance voltages and currents Frequency range: 9 kHz - 30 MHz	EN 55016-1-1, CISPR 16-1-1 EN 55016-1-2, CISPR 16-1-2, EN 55016-2-1, CISPR 16-2-1
	Disturbance power Frequency range: f = 30 – 1000 MHz	EN 55016-1-1, CISPR 16-1-1 EN 55016-1-3, CISPR 16-1-3 EN 55016-2-2, CISPR 16-2-2
	Disturbance field strength Frequency range: f = 9 kHz – 18 GHz Measuring distance R = 10 m	EN 55016-1-1, CISPR 16-1-1 EN 55016-1-4, CISPR 16-1-4 EN 55016-2-3, CISPR 16-2-3
	Immunity, Basic standards:	
	Part 4-2: Electrostatic discharge	EN 61000-4-2, IEC 61000-4-2
	Part 4-3: High frequency electromagnetic fields Frequency range: f = 26 MHz – 18000 MHz	EN 61000-4-3, IEC 61000-4-3
	Part 4-4: Electrical fast transients / Burst	EN 61000-4-4, IEC 61000-4-4
	Part 4-5: Surge voltage / Surge	EN 61000-4-5, IEC 61000-4-5
	Part 4-6: Conducted Rf disturbances, Frequency range: f = 0.15 MHz – 250 MHz	EN 61000-4-6, IEC 61000-4-6
	Part 4-8: Power frequency magnetic fields	EN 61000-4-8, IEC 61000-4-8
	Part 4-9: Pulse magnetic fields	EN 61000-4-9, IEC 61000-4-9
	Part 4-10: Damped oscillatory magnetic fields	EN 61000-4-10, IEC 61000-4-10
	Part 4-11: Voltage dips, short interruptions and voltage variations I ≤ 16 A	EN 61000-4-11, IEC 61000-4-11
	Part 4-12: Ring wave	EN 61000-4-12, IEC 61000-4-12

1) Scope of application Type A (fixed)
2) Scope of application Type B (flexible)
3) Scope of application Type C (flexible)

Definition of flexibility see SAS-Document 741

STS Directory **Accreditation number: STS 0034**

Product or Material group, Field of activity	**Principle of measurement** [2] **(Characteristics, measuring ranges, type of tests)**	**Test methods, remarks (National, international standards, validated in-house test methods)**
	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 4-14: Voltage fluctuation immunity test for equipment with input current not exceeding 16 A per phase	EN 61000-4-14, IEC 61000-4-14
	Part 4-16: Conducted, common mode disturbances in the frequency range 0 Hz to 150 kHz	EN 61000-4-16, IEC 61000-4-16
	Part 4-17: Ripple on d.c. input power port immunity test	EN 61000-4-17, IEC 61000-4-17
	Part 4-18: Damped oscillatory wave	EN 61000-4-18, IEC 61000-4-18
	Part 4-19: 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 4-27: Unbalance, immunity test for equipment with input current not exceeding 16 A per phase	EN 61000-4-27, IEC 61000-4-27
	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 variatons on d.c. input power port	EN 61000-4-29, IEC 61000-4-29
	Part 4-34: Voltage dips, short interruptions and voltage variations for equipment with mains current > 16 A per phase	EN 61000-4-34, IEC 61000-4-34
	Part 4-39: Radiated fields in close proximity	EN 61000-4-39, IEC 61000-4-39

1) Scope of application Type A (fixed)
2) Scope of application Type B (flexible)
3) Scope of application Type C (flexible)

Definition of flexibility see SAS-Document 741

STS Directory **Accreditation number: STS 0034**

Product or Material group, Field of activity	**Principle of measurement** [2] **(Characteristics, measuring ranges, type of tests)**	**Test methods, remarks (National, international standards, validated in-house test methods)**
	EMC of products	
General	(“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 6-5: Immunity for equipment used in power station and substation environment	EN 61000-6-5, IEC 61000-6-5
	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
Assessment of electronic and electrical equipment related to human exposure restrictions for electromagnetic fields	0 Hz to 300 GHz	EN 62311, IEC 62311
Measurement methods for electromagnetic fields of household appliances and similar apparatus with regard to human exposure	1 Hz to 400 kHz	IEC 62233, EN 62233
Assessment of the compliance of low power electronic and electrical equipment with the basic restrictions related to human exposure to electromagnetic fields	10 MHz to 300 GHz	EN 62479, IEC 62479
Assessment of lighting equipment related to human exposure to electromagnetic fields	20 kHz to 10 MHz (internal) 100 kHz to 300 MHz (SAR)	EN 62493, IEC 62493
General	**Product standards:**	EMC tests according to product standards which are covered fully by basic standards above. Among others:
Telecommunication network equipment	EMC requirements	ETSI EN 300 386
Electrical equipment for measurement, control and laboratory use	Part 1: General requirements	EN 61326-1, IEC 61326-1

1) Scope of application Type A (fixed)
2) Scope of application Type B (flexible)
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Definition of flexibility see SAS-Document 741

STS Directory **Accreditation number: STS 0034**

Product or Material group, Field of activity	**Principle of measurement** [2] **(Characteristics, measuring ranges, type of tests)**	**Test methods, remarks (National, international standards, validated in-house test methods)**
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
In vitro diagnostic (IVD) medical equipment	Part 2-6: Particular requirements	EN 61326-2-6, IEC 61326-2-6
Immunity requirements for safety-related systems and for equipment intended to perform safety-related functions (functional safety)	Part 3-1: General industrial applications	EN 61326-3-1, IEC 61326-3-1
	Part 3-2: Industrial applications with specified electromagnetic environment	EN 61326-3-2, IEC 61326-3-2
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 Geräte	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
	Part 2: Immunity	EN 55014-2, CISPR 14-2
Electrical lighting and similar equipment	Limits and methods of measurement of radio disturbance characteristics	EN 55015, CISPR 15
Information technology equipment - Radio disturbance characteristics - Limits and methods of measurement	Radio disturbance characteristics	EN 55022, CISPR 22

1) Scope of application Type A (fixed)
2) Scope of application Type B (flexible)
3) Scope of application Type C (flexible)

Definition of flexibility see SAS-Document 741

STS Directory **Accreditation number: STS 0034**

Product or Material group, Field of activity	**Principle of measurement** [2] **(Characteristics, measuring ranges, type of tests)**	**Test methods, remarks (National, international standards, validated in-house test methods)**
Electromagnetic compatibility of multimedia equipment	Emission requirements	EN 55032, CISPR 32
	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
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
Equipment for general lighting purposes	EMC immunity requirements	EN 61547, IEC 61547
Railway applications - EMC	Part 1: General	EN 50121-1, IEC 62236-1
	Part 2: Emission of the whole railway system to the outside world	EN 50121-2, IEC 62236-2
	Part 3-1: Rolling stock - Train and complete vehicle	EN 50121-3-1, IEC 62236-3-1
	Part 3-2: Rolling stock – Apparatus	EN 50121-3-2, IEC 62236-3-2
	Part 4: Emission and immunity of the signalling and telecommunications apparatus	EN 50121-4, IEC 62236-4
	Part 5: Emission and immunity of fixed power supply installations and apparatus	EN 50121-5, IEC 62236-5
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

1) Scope of application Type A (fixed)
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Definition of flexibility see SAS-Document 741

STS Directory **Accreditation number: STS 0034**

Product or Material group, Field of activity	**Principle of measurement** [2] **(Characteristics, measuring ranges, type of tests)**	**Test methods, remarks (National, international standards, validated in-house test methods)**
	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
	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
Satelite navigation	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

1) Scope of application Type A (fixed)
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Definition of flexibility see SAS-Document 741

STS Directory **Accreditation number: STS 0034**

Product or Material group, Field of activity	**Principle of measurement** [2] **(Characteristics, measuring ranges, type of tests)**	**Test methods, remarks (National, international standards, validated in-house test methods)**
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
	Part 19: Specific conditions for Receive Only Mobile Earth Stations (ROMES) operating in the 1,5 GHz band providing data communications and GNSS receivers operating in the RNSS band providing positioning, navigation, and timing data	ETSI EN 301 489-19
	Part 27: Specific conditions for Ultra Low Power Active Medical Implants (ULP-AMI) and related peripheral devices (ULP-AMI-P) operating in the 402 MHz to 405 MHz bands	ETSI EN 301 489-27
	Part 31: Specific conditions for equipment in the 9 kHz to 315 kHz band for Ultra Low Power Active Medical Implants (ULP-AMI) and related peripheral devices (ULP-AMI-P	ETSI EN 301 489-31
	Part 35: Specific requirements for Low Power Active Medical Implants (LP-AMI) operating in the 2 483,5 MHz to 2 500 MHz bands	ETSI EN 301 489-35

1) Scope of application Type A (fixed)
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3) Scope of application Type C (flexible)

Definition of flexibility see SAS-Document 741

STS Directory **Accreditation number: STS 0034**

Product or Material group, Field of activity	**Principle of measurement** [2] **(Characteristics, measuring ranges, type of tests)**	**Test methods, remarks (National, international standards, validated in-house test methods)**
	Part 50: Specific conditions for Cellular Communication Base Station (BS), repeater and ancillary equipment	ETSI EN 301 489-50
	Part 51: Specific conditions for Automotive, Ground based Vehicles and Surveillance Radar Devices using 24,05 GHz to 24,25 GHz, 24,05 GHz to 24,5 GHz, 76 GHz to 77 GHz and 77 GHz to 81 GHz	ETSI EN 301 489-51
	Part 52: Specific conditions for Cellular Communication User Equipment (UE) radio and ancillary equipment	ETSI EN 301 489-52
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
	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

1) Scope of application Type A (fixed)
2) Scope of application Type B (flexible)
3) Scope of application Type C (flexible)

Definition of flexibility see SAS-Document 741

STS Directory **Accreditation number: STS 0034**

Product or Material group, Field of activity	**Principle of measurement** [2] **(Characteristics, measuring ranges, type of tests)**	**Test methods, remarks (National, international standards, validated in-house test methods)**
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
Infant radiant warmers	Part 2-21: Particular requirements for the basic safety and essential performance	IEC 60601-2-21, EN 60601-2-21
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
Electrocardiographs	Part 2-25: Particular requirements for the basic safety and essential performance	EN 60601-2-25, IEC 60601-2-25
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

1) Scope of application Type A (fixed)
2) Scope of application Type B (flexible)
3) Scope of application Type C (flexible)

Definition of flexibility see SAS-Document 741

STS Directory **Accreditation number: STS 0034**

Product or Material group, Field of activity	**Principle of measurement** [2] **(Characteristics, measuring ranges, type of tests)**	**Test methods, remarks (National, international standards, validated in-house test methods)**
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
Electromyographs and evoked response equipment	Part 2-40: Particular requirements for the basic safety and essential performance	EN 60601-2-40, IEC 60601-2-40
Surgical luminaires and luminaires for diagnosis	Part 2-41: Particular requirements for the basic safety and essential performance	EN 60601-2-41, IEC 60601-2-41
Respiratory humidifying equipment	Part 2-74: Particular requirements for the basic safety and essential performance	EN 80601-2-74, ISO 80601-2-74
Medical robots for rehabilitation, assessment, compensation or alleviation	Part 2-78: Particular requirements for basic safety and essential performance	EN 80601-2-78, IEC 80601-2-78
Fire hazard testing	Part 10-2: Abnormal heat - Ball pressure test method	EN 60695-10-2, IEC 60695-10-2
	Part 11-10: Test flames - 50 W horizontal and vertical flame test methods	EN 60695-11-10, IEC 60695-11-10
	Part 11-20: Test flames - 500 W flame test method	EN 60695-11-20, IEC 60695-11-20
Safety of laser products	Part 1: Equipment classification and requirements	EN 60825-1, IEC 60825-1
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

1) Scope of application Type A (fixed)
2) Scope of application Type B (flexible)
3) Scope of application Type C (flexible)

Definition of flexibility see SAS-Document 741

STS Directory **Accreditation number: STS 0034**

Product or Material group, Field of activity	**Principle of measurement** [2] **(Characteristics, measuring ranges, type of tests)**	**Test methods, remarks (National, international standards, validated in-house test methods)**
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
Sterilizers and washer-disinfectors used to treat medical materials	Part 2-040: Particular requirements	EN 61010-2-040, IEC 61010-2-040
Laboratory equipment for mixing and stirring	Part 2-051: Particular requirements	EN 61010-2-051, IEC 61010-2-051
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 simulation tests	
Environmental testing	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

1) Scope of application Type A (fixed)
2) Scope of application Type B (flexible)
3) Scope of application Type C (flexible)

Definition of flexibility see SAS-Document 741

Product or Material group, Field of activity	**Principle of measurement** [2] **(Characteristics, measuring ranges, type of tests)**	**Test methods, remarks (National, international standards, validated in-house test methods)**
	Part 2-78: Tests - Test Cab: Damp heat, steady state	EN 60068-2-78, IEC 60068-2-78
	Energy consumption	
Electrical and electronic household and office equipment	Measurement of low power consumption	EN 62301, IEC 62301
Audio, video, and related equipment - Determination of power consumption	Part 1: General	EN 62087-1, IEC 62087-1
Power consumption of information technology equipment	Measurement methods	EN 62018, IEC 62018
Electrical and electronic household and office equipment	Measurement of low power consumption	EN 50564
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 250 W	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

1) Scope of application Type A (fixed)
2) Scope of application Type B (flexible)
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Definition of flexibility see SAS-Document 741

STS Directory **Accreditation number: STS 0034**

Product or Material group, Field of activity	**Principle of measurement** [2] **(Characteristics, measuring ranges, type of tests)**	**Test methods, remarks (National, international standards, validated in-house test methods)**
	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
Functional safety of agricultular and forestry vehicles	Requirements for the safety of electrical systems	Commission Delegated Regulation (EU) No 2015/208 / ANNEX XXIV
Functional safety of two- or three wheeled and four-wheeled vehicles	Requirements for the electrical safety	Commission Delegated Regulation (EU) No 3/2014 / ANNEX IV

Limitations and comments:
K1) Limitation: without voice transmission
K2) Limitation: without RS105
K3) Limitation: without DFS

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

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1) Scope of application Type A (fixed)
2) Scope of application Type B (flexible)
3) Scope of application Type C (flexible)

Definition of flexibility see SAS-Document 741