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

SCS Register — Accreditation Number: SCS 0169

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

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First accreditation:	17.08.2023
Current accreditation:	17.08.2023 to 16.08.2028
Register see:	www.sas.admin.ch (Accredited organizations)

Scope of accreditation as of 17.08.2023

Calibration laboratory for magnetic measurement quantities

Calibration and Measurement Capabilities (CMC)

Measurement quantity / Object to be calibrated	Measurement range	Measurement conditions	Best measurement uncertainty ± [1)]	Remarks
Flux density of static magnetic field				
Calibration of Magnetometers	1 mT ... < 38 mT		300 µT/T + 3.6 µT	Comparison with NMR-calibrated Hall probe above 38 mT and linearized
	38 mT ... < 30 T		5 µT/T	Comparison with NMR magneto-meter: 38 mT .. 3 T: Measurement in Electromagnet 1.5 T, 3 T, 7 T, 9.4 T & 14.1 T: Fixed-field measurement in Superconducting magnets

1) The given extended measurement uncertainty is the standard uncertainty about the measurement result multiplied by the enlargement factor k = 2 which, for a Gaussian distribution, corresponds to a confidence level of about 95%.

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Measurement quantity / Object to be calibrated	Measurement range	Measurement conditions	Best measurement uncertainty ± [1)]	Remarks
Flux density of alternating magnetic field				
Calibration of magnetometers	100 µT ... < 8 mT	< 3 kHz	100 µT/T	Comparison with Fluxmeter using a coil whose surface is calibrated
Static magnetic field generator				
Calibration or mapping of magnets generating static fields	1 mT ... < 38 mT		300 µT/T + 3.6 µT	Measurement with NMR calibrated Hall probe above 38 mT and Linearized
	38 mT … < 30 T		5 µT/T	NMR magnetometer measurement
AC magnetic field generator				
Calibration or mapping of magnets generating alternating fields	100 µT ... < 8 mT	< 3 kHz	100 µT/T	Comparison with Fluxmeter using a coil whose surface is calibrated
Effective magnetic surface according to Faraday's law				
Magnetic field measuring coil surface	0.01 m^2 ... < 0.10 m^2		60 mm^2/m^2	By NMR measurement of a field of reference then field variation and integration of the induced voltage (Faraday's law of induction)
	0.10 m^2 ... < 1.00 m^2		29 mm^2/m^2	
	1.00 m^2 ... < 10.00 m^2		22 mm^2/m^2	
Frequency				
Calibration of frequency generators	1 MHz ... < 1000 MHz		10 mHz/MHz	By counting a reference frequency of 10 MHz

1) The given extended measurement uncertainty is the standard uncertainty about the measurement result multiplied by the enlargement factor k = 2 which, for a Gaussian distribution, corresponds to a confidence level of about 95%.

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Measurement quantity / Object to be calibrated	Measurement range	Measurement conditions	Best measurement uncertainty ± [1)]	Remarks
DC voltage				
Voltmeter calibration	100 mV		25 µV/V + 3 µV	Comparison with a voltmeter
	1 V		18 µV/V + 6 µV	
	10 V		13 µV/V + 40 µV	
	100 V		18 µV/V + 600 µV	

In the event of contradictions in the language versions of the registers, the French version shall prevail.

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