



SCS Directory

Accreditation number: SCS 0050

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

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2022 Bevaix

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Initial accreditation: 30.05.1994
Current accreditation: 04.08.2024 to 03.08.2029
Scope of accreditation see: www.sas.admin.ch
(Accredited bodies)

Scope of accreditation as of 04.08.2024

Calibration laboratory for electrical quantities

Calibration and Measurement Capability (CMC)

Measured Quantity / Instrument or Gauge	Measurement Range	Measurement Conditions	Best Measurement Uncertainty $\pm$ ¹⁾	Remarks
DC resistance				Given uncertainty are only valid for fixe values
Calibration of Ohmmeters	19,2 Ω ; 192 Ω 1920 Ω ; 19,2 k Ω		125•10 ⁻⁶ R 125•10 ⁻⁶ R	On-site calibration as well with appropriate measurement uncertainty
Resistance calibration	1 Ω ... < 220 k Ω		60•10 ⁻⁶ R	R = measured value R = measured value



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Measured Quantity / Instrument or Gauge	Measurement Range	Measurement Conditions	Best Measurement Uncertainty $\pm$ ¹⁾	Remarks
AC resistance				
Calibration of Ohmmeters	$(22,5 \pm 2,5) \mu\Omega$	DC ... 2,5 Hz	$810 \cdot 10^{-6} R$	On-site calibration as well with appropriate measurement uncertainty R = measured value
	$(45 \pm 5) \mu\Omega$	DC ... 2,5 Hz	$790 \cdot 10^{-6} R$	
	$(90 \pm 5) \mu\Omega$	DC ... 2,5 Hz	$810 \cdot 10^{-6} R$	
	$(180 \pm 10) \mu\Omega$	DC ... 5 Hz	$790 \cdot 10^{-6} R$	
	$(700 \pm 100) \mu\Omega$	DC ... 2,5 Hz	$260 \cdot 10^{-6} R$	
	$(1,35 \pm 0,15) m\Omega$	DC ... 2,5 Hz	$260 \cdot 10^{-6} R$	
	$(18 \pm 2) m\Omega$	DC ... 20 Hz	$320 \cdot 10^{-6} R$	
	$(29 \pm 2) m\Omega$	DC ... 20 Hz	$420 \cdot 10^{-6} R$	
	1 m Ω ; 10 m Ω ; 100 m Ω ; 1 Ω ; 10 Ω ; 100 Ω	DC ... 5 Hz	$160 \cdot 10^{-6} R$	
Resistance calibration	0,1 m Ω	DC ... 5 Hz	$260 \cdot 10^{-6} R$	Resistances in form of cylindrical rods R = measured value
	20 $\mu\Omega$... 25 $\mu\Omega$	DC ... 2,5 Hz	$780 \cdot 10^{-6} R$	
	40 $\mu\Omega$... 50 $\mu\Omega$	DC ... 2,5 Hz	$655 \cdot 10^{-6} R$	
	85 $\mu\Omega$... 95 $\mu\Omega$	DC ... 2,5 Hz	$780 \cdot 10^{-6} R$	
	170 $\mu\Omega$... 190 $\mu\Omega$	DC ... 2,5 Hz	$655 \cdot 10^{-6} R$	
	600 $\mu\Omega$... 800 $\mu\Omega$	DC ... 2,5 Hz	$285 \cdot 10^{-6} R$	
	1,2 m Ω ... 1,5 m Ω	DC ... 2,5 Hz	$285 \cdot 10^{-6} R$	
	16 m Ω ... 19 m Ω	DC	$360 \cdot 10^{-6} R$	
	28 m Ω ... 30 m Ω	DC	$700 \cdot 10^{-6} R$	
	1 m Ω ; 10 m Ω ; 100 m Ω ; 1 Ω	DC	$230 \cdot 10^{-6} R$	
	0,1 m Ω	DC	$325 \cdot 10^{-6} R$	



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Capacity				
Calibration of Capacitance meters	(19 $\pm$ 1) nF (192 $\pm$ 1) nF	12,5 Hz ... 1 kHz 12,5 Hz ... 1 kHz	555•10 ⁻⁶ C 555•10 ⁻⁶ C	On-site calibration as well with appropriate measurement uncertainty C = measured value
Calibration of Capacitances	10 nF ... 20 nF 180 nF ... 200 nF	125 Hz 125 Hz	470•10 ⁻⁶ C 470•10 ⁻⁶ C	C = measured value C = measured value
Attenuation				
Attenuators' calibration	(3 $\pm$ 0,3) dB (6 $\pm$ 0,3) dB (10 $\pm$ 0,3) dB (20 $\pm$ 0,5) dB (30 $\pm$ 1,0) dB	0,3 MHz ... 3000 MHz 0,3 MHz ... 3000 MHz 0,3 MHz ... 3000 MHz 0,3 MHz ... 3000 MHz 0,3 MHz ... 3000 MHz	0,2 dB 0,2 dB 0,2 dB 0,2 dB 0,2 dB	PC 3,5 mm and SMA
Load termination				
Loads' calibration	(50 $\pm$ 2,5) Ω (50 $\pm$ 2,5) Ω	0,3 MHz ... < 2000 MHz 2 GHz ... 3 GHz	1,2 % 1,6 %	PC 3,5 mm and SMA

The dimensionless parts of the measurement uncertainty are relative values, referred to the measured value.

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

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