



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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Internet: www.aesa-cortailod.com
Initial accreditation: 30.05.1994
Current accreditation: 04.08.2019 to 03.08.2024
Scope of accreditation see: www.sas.admin.ch
(Accredited bodies)

Scope of accreditation as of 28.08.2023

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 ohmique				Given uncertainty are only valid for fixe values
Calibration of Ohmmeters	192 Ω ; 1920 Ω 19,2 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



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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	790 \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	790 \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	480 \cdot 10 ⁻⁶ R	
	(1,35 \pm 0,15) m Ω	DC ... 2,5 Hz	480 \cdot 10 ⁻⁶ R	
	(18 \pm 2) m Ω	DC ... 20 Hz	310 \cdot 10 ⁻⁶ R	
	(29 \pm 2) m Ω	DC ... 20 Hz	290 \cdot 10 ⁻⁶ R	
Resistance calibration	1 m Ω ; 10 m Ω ; 100 m Ω ; 1 Ω ; 10 Ω ; 100 Ω	DC ... 5 Hz	160 \cdot 10 ⁻⁶ R	Resistances in form of cylindrical rods R = measured value
	0,1 m Ω	DC ... 5 Hz	250 \cdot 10 ⁻⁶ R	
	20 $\mu\Omega$... 25 $\mu\Omega$	DC ... 2,5 Hz	760 \cdot 10 ⁻⁶ R	
	40 $\mu\Omega$... 50 $\mu\Omega$	DC ... 2,5 Hz	660 \cdot 10 ⁻⁶ R	
	85 $\mu\Omega$... 95 $\mu\Omega$	DC ... 2,5 Hz	760 \cdot 10 ⁻⁶ R	
	170 $\mu\Omega$... 190 $\mu\Omega$	DC ... 2,5 Hz	660 \cdot 10 ⁻⁶ R	
	600 $\mu\Omega$... 800 $\mu\Omega$	DC ... 2,5 Hz	495 \cdot 10 ⁻⁶ R	
	1,2 m Ω ... 1,5 m Ω	DC ... 2,5 Hz	495 \cdot 10 ⁻⁶ R	
	16 m Ω ... 19 m Ω	DC	360 \cdot 10 ⁻⁶ R	
	28 m Ω ... 30 m Ω	DC	850 \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	315 \cdot 10 ⁻⁶ R	



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Measured Quantity / Instrument or Gauge	Measurement Range	Measurement Conditions	Best Measurement Uncertainty \pm ¹⁾	Remarks
Capacity				
Calibration of Capacitance meters	(19 \pm 1) nF	12,5 Hz ... 1 kHz	550•10 ⁻⁶ C	On-site calibration as well with appropriate measurement uncertainty
	(192 \pm 1) nF	12,5 Hz ... 1 kHz	550•10 ⁻⁶ C	
Calibration of Capacitances	10 nF ... 20 nF	125 Hz	470•10 ⁻⁶ C	C = measured value
	180 nF ... 200 nF	125 Hz	470•10 ⁻⁶ C	
Attenuation				
Attenuators' calibration	(3 \pm 0,3) dB	0,3 MHz ... 3000 MHz	0,2 dB	PC 3,5 mm and SMA
	(6 \pm 0,3) dB	0,3 MHz ... 3000 MHz	0,2 dB	
	(10 \pm 0,3) dB	0,3 MHz ... 3000 MHz	0,2 dB	
	(20 \pm 0,5) dB	0,3 MHz ... 3000 MHz	0,2 dB	
	(30 \pm 1,0) dB	0,3 MHz ... 3000 MHz	0,2 dB	
Load termination				
Loads' calibration	(50 \pm 2,5) Ω	0,3 MHz ... < 2000 MHz	1,2 %	PC 3,5 mm and SMA
	(50 \pm 2,5) Ω	2 GHz ... 3 GHz	1,6 %	

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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