



SCS Directory

Accreditation number: SCS 0128

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

Haefely AG
Calibration laboratory
Birsstrasse 300
4052 Basel

Head: Markus Dinger
Responsible for MS: Markus Dinger
Telephone: +41 61 373 41 11
E-Mail: mdinger@haefely.com
Internet: <http://www.haefely.com/>
Initial accreditation: 14.05.2012
Current accreditation: 14.05.2022 to 13.05.2027
Scope of accreditation see: www.sas.admin.ch
(Accredited bodies)

Scope of accreditation as of 02.06.2023

Calibration laboratory for electrical quantities

Calibration and Measurement Capability (CMC)

Measured Quantity / Instrument or Gauge	Measurement Range	Measurement Conditions	Best Measurement Capability \pm ¹⁾	Remarks
Direct voltage	0,1 V to 1000 V		0,02 %	Measuring instruments calibration
	1 kV to 180 kV		0,25 %	Calibration of measuring systems
	5 kV to 300 kV		0,4 %	
	1 kV to 375 kV		0,2 %	
	300 kV to 900 kV		1,0 %	Also on site ²⁾
300 kV to 1500 kV		1,0 %		
375 kV to 1875 kV		0,9 %		
Alternating voltage	0,3 V to 1000 V	10 Hz to 10 kHz	0,11 %	Measuring instruments calibration



SCS Directory

Accreditation number: SCS 0128

Measured Quantity / Instrument or Gauge	Measurement Range	Measurement Conditions	Best Measurement Capability \pm ¹⁾	Remarks
Impulse voltage (LI)	200 kV to 250 kV		0,5 %	Calibration of measuring systems Also on site ²⁾ LI = Lightning impulse full wave LIC = Lightning impulse chopped SI = Switching impulse T ₁ = Front time T ₂ = Time to half value T _c = Time to chop T _p = Time to peak
	20 kV to 500 kV		0,6 %	
	20 kV to 800 kV		0,6 %	
	500 kV to 2500 kV		1,0 %	
	800 kV to 4000 kV		1,0 %	
Time parameters T ₁ T ₂	0,8 μ s to 1,6 μ s		2,1 %	Also on site ²⁾
	40 μ s to 60 μ s		2,1 %	
Impulse voltage (LIC)	20 kV to 800 kV		0,6 %	
Time parameters T _c	0,5 μ s to 6,0 μ s		2,1%	
Impulse voltage (SI)	200 kV to 250 kV		0,5 %	
	50 kV to 500 kV		0,6 %	
	50 kV to 600 kV		0,6 %	
Time parameters T _p T ₂	500 kV to 2500 kV		1,0 %	
	600 kV to 3000 kV		1,0 %	
	200 μ s to 300 μ s 1000 μ s to 4000 μ s		2,1 % 2,1 %	
Apparent charge q ₀	1 pC to 20 pC		0,04[q ₀]-0,001 pC	Calibration of partial discharge calibrators (IEC60270: 2015 Ed. 3.1)
	20 pC to 5 nC		0,04[q ₀]-0,1 pC	
	5 nC to 50 nC		0,029[q ₀]+45 pC	
Pulse rise time t _r	5 ns to 100ns			
	1 pC to 2000 pC		$-3,08 \cdot 10^{-05}[q_0] + 0,76$ ns	
	2000 pC to 50000 pC		$1,46 \cdot 10^{-01}[q_0] + 1,16$ ns	
Pulse repetition frequency N	0,1 Hz to 50 Hz		$-2,5 \cdot 10^{-06}[N] + 2,7 \cdot 10^{-05}$ Hz	
	50 Hz to 600 Hz		$7,3 \cdot 10^{-08}[N] - 2,6 \cdot 10^{-06}$ Hz	



SCS Directory

Accreditation number: SCS 0128

Measured Quantity / Instrument or Gauge	Measurement Range	Measurement Conditions	Best Measurement Capability \pm ¹⁾	Remarks
Capacitance Calibration of capacitors	10 pF bis 146 nF	0,5 kV to 2 kV 50 Hz, 60 Hz	0,02 %	
	10 pF to 146 nF	5 kV to 100 kV 50 Hz, 60 Hz	0,02 %	Also on site ²⁾
	10 pF to 146 nF	5 kV to 500 kV 50 Hz, 60 Hz	0,2 %	Also on site ²⁾
Calibration of measuring bridges	0,01 pF to 850 μ F	50 Hz, 60 Hz 30 μ A bis 1,5 A	0,02 %	
Dissipation factor Calibration of capacitors	1E-05 to 1E-01	50 Hz, 60 Hz	2,0 E-05	
	1E-05 to 1E-01	50 Hz, 60 Hz	2,0 E-05	Calibration of measuring bridges

²⁾ on site calibrations might show higher uncertainties

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

* / * / * / * / *