Schweizerische Eidgenossenschaft
Confédération suisse
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Swiss Confederation

Federal Department of Economic Affairs,
Education and Research EAER

State Secretariat for Economic Affairs SECO
Swiss Accreditation Service SAS

SCS Directory

Accreditation number: SCS 0079

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

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Initial accreditation:	02.06.1997
Current accreditation:	16.04.2020 to 15.04.2025
Scope of accreditation see:	www.sas.admin.ch (Accredited bodies)

Scope of accreditation as of 16.04.2020

Calibration laboratory for Length and Angle

Calibration and Measurement Capability (CMC)

Measured Quantity / Instrument or Gauge	Measurement Range	Measurement Conditions	Best Measurement Capability ± [1)]	Remarks	Lab
ELECTRO-OPTICAL DISTANCE MEASURING INSTRUMENTS					Lab 1
Distance (to prism)	60 m	Laboratory	0,16 mm	Measurement of linearity deviations	
	120 m		0,26 mm		
Distance (non prism)	60 m	Laboratory	0,17 mm		
	120 m		0,26 mm		
Distance (to prism)	500 m	Terrain	0,07 mm	Standard deviation of a single	

The given extended measurement uncertainty is the standard uncertainty of the measurement multiplied by an extension factor k = 2, which corresponds to a confidence level of about 95% for a normal distribution.

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Measured Quantity / Instrument or Gauge	Measurement Range	Measurement Conditions	Best Measurement Capability ± [1)]	Remarks	Lab
Distance (to prism)	1000 m		0,10 mm	measurement,	
	2000 m		0,18 mm	according to	
	3000 m		0,26 mm	ISO 17123-4	
Distance (non prism)	500 m	Terrain	0,13 mm		
	1000 m		0,15 mm		
	2000 m		0,21 mm		
	3000 m		0,28 mm		
FREQUENCY	100 MHz	Temperature range	10,0 Hz	Deviation of the modulation	Lab 1
	50 MHz	-20 °C ... +50 °C	5,0 Hz		
	15 MHz		1,5 Hz	frequency in function of the temperature	
LEVEL					Lab 1
Horizontal optical line of sight	Deviation of line of sight from horizon	Laboratory	2,6 ″	according to Leica calibration instruc-tion 666 951	
	Repeatability		0,18 ″		
THEODOLITES					Lab 1
Angles	Hz full circle	Laboratory	0,08 ’’	Standard deviation	
	V ± 126 °		0,08 ’’	of a dual face	
	(Zenith angle)			Measurement according to ISO 17123-3	
LASER TRACKER INSTRUMENTS				According to instructions “Customer Infor-mation Leica Laser Tracker Calibration Method”	Lab 1 Lab 2
Spatial length to retro reflector	1400 mm	Laboratory	5 µm	Using laser rail with interferometer	
Spatial length with tactile probe	2300 mm	Laboratory	12 µm	Between centres of two probed points using scale bar	

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Measured Quantity / Instrument or Gauge	Measurement Range	Measurement Conditions	Best Measurement Capability ± [1)]	Remarks	Lab
Spatial length with optical probe (scanning)	2300 mm	Laboratory	14 µm	Between two sphere centres using scale bar	
Scale of Interferometer (IFM, Wavelength)	633 nm	Laboratory	0.00002 nm (0.03 ppm)	Deviation of the wavelength from the reference	
Laser Tracker Instruments and Absolute Distance Meters					Lab 1 Lab 2
Scale of Absolute Distance Meter (Frequency)	25 MHz	Laboratory	0.75 Hz (0.03 ppm)	Deviation of the modulation frequency from the reference	
Distance Offset of Absolute Distance Meter	6 m	Laboratory	7 µm		
Meteo Station - Temperature - Pressure - Humidity	One discrete measurement at current conditions	Actual laboratory condition	 0.06 °C 0.7 hPa 2.5 % r.H.		

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