



SCS Directory

Accreditation number: SCS 0079

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

Lab 1
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Internet: <http://www.leica-geosystems.com>
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 25.10.2021

Calibration laboratory for Length and Angle

Calibration and Measurement Capability (CMC)

Measured Quantity / Instrument or Gauge	Measurement Range	Measurement Conditions	Best Measurement Capability \pm 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	



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Measured Quantity / Instrument or Gauge	Measurement Range	Measurement Conditions	Best Measurement Capability \pm ¹⁾	Remarks	Lab
Distance (to prism)	1000 m	Terrain	0,10 mm	measurement, according to ISO 17123-4	
	2000 m		0,18 mm		
	3000 m		0,26 mm		
Distance (non prism)	500 m		0,13 mm		
	1000 m		0,15 mm		
	2000 m		0,21 mm		
FREQUENCY	3000 m	0,28 mm			
	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		
THEODOLITES					Lab 1
Angles	Hz full circle	Laboratory	0,08 "	Standard deviation of a dual face	
	V \pm 126 ° (Zenith angle)		0,08 "		
LASER TRACKER INSTRUMENTS					Lab 1 Lab 2
Two-face error		1,5 m – 6 m Laboratory	6 μ m	Testing method according to ISO/FDIS 10360-10:2021	
Spatial length to retro-reflector	2300 mm	1,5 m – 6 m Laboratory	9 μ m	ditto	
Spatial length to retro-reflector (in-line)	1,5 m – 53 m	Laboratory	5 μ m	ditto	
Probing form error on sphere (with retro-reflector, tactile probe and optical scanning probe)	25 mm	2 m – 10 m Laboratory	8 μ m	ditto	



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Measured Quantity / Instrument or Gauge	Measurement Range	Measurement Conditions	Best Measurement Capability \pm ¹⁾	Remarks	Lab
Probing size error on sphere (with retro-reflector, tactile probe and optical scanning probe)	50 mm	2 m – 10 m Laboratory	6 μ m	ditto	Lab 1 Lab 2
Orientation error with tactile probe		2 m – 10 m Laboratory	10 μ m	ditto	
Probing form error on flat (with optical scanning probe)	400 mm flat	2 m Laboratory	12 μ m	ditto	
Spatial length with tactile probe	2300 mm	Laboratory	12 μ m	According to instructions "Customer Information Leica Laser Tracker Calibration Method" (v2.0.0en 2021)	
Spatial length with optical probe (scanning)	2300 mm	Laboratory	12 μ m	ditto	
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					
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 μ m		
Meteo Station - Temperature - Pressure - Humidity	One discrete measurement at current conditions	Actual laboratory condition	0.06 °C 0.7 hPa 2.5 % r.H.		

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

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