

CERTIFICATE OF ACCREDITATION

The ANSI National Accreditation Board

Hereby attests that

FARO International (Shanghai) Company Ltd.

1/F, Building No. 2, 188 Pingfu Road Juxin Information Technology Park, Xuhui District Shanghai 200231 China

Fulfills the requirements of

ISO/IEC 17025:2017

In the field of

CALIBRATION

This certificate is valid only when accompanied by a current scope of accreditation document. The current scope of accreditation can be verified at www.anab.org.

SDS

R. Douglas Leonard Jr., VP, PILR SBU

Expiry Date: 25 January 2024 Certificate Number: L1147.07-1





SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

FARO International (Shanghai) Company Ltd.

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CALIBRATION

Valid to: January 25, 2024 Certificate Number: L1147.07-1

Length-Dimensional Metrology

Parame te r/Equipme nt	Range	Expanded Uncertainty of Measurement (+/-) ²	Reference Standard, Method, and/or Equipment
Articulated Arm Coordinate Measurement Machine (AACMM): Volumetric Performance	(0 to 0.9) m	$(0.52 + 2.2L) \mu m$	ASME B89.4.22-2004 at 5.2, 5.3 and 5.4 ISO 10360-2:2001 Ball Bar
volumetric i cirormanee	(0 to 2.2) m	3.5 μm	Kinematic Scale Bar
Effective Diameter	(3 to 25.4) mm	1.0 μm	Test Sphere
Articulated Arm Coordinate Measurement Machine (AACMM):			ISO 10360-12:2016 6.2, 6.3, 6.4
Probing Size Error (PSize)	Sphere Diameter: 25.4 mm	1.0 µm	Test Sphere
Probing Form Error (PForm)	Sphere Diameter: 25.4 mm	0.9 µm	Test Sphere
Articulated Location Error (LDia)	Sphere Diameter: 25.4 mm	1.7 μm	Test Sphere
Length Measurement Error, Unidirectional (EUni)	(0 to 1.05) m (0 to 1.36) m (0 to 1.8) m (0 to 2.11) m (0 to 2.42) m (0 to 2.64) m	3.1 μm 3.7 μm 4.0 μm 5.7 μm 6.4 μm 8.4 μm	Kinematic Scale Bar





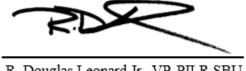
Length-Dimensional Metrology

Parame te r/Equipme nt	Range	Expanded Uncertainty of Measurement (+/-) ²	Reference Standard, Method, and/or Equipment
Articulated Arm Coordinate			B89.4.22-2004 and ISO
Measurement Machine			10360-12:2016
(AACMM):			
Single Point Articulation Performance	N/A ³	0.41 μm	Test Sphere
Articulated Arm Coordinate			Based on ISO 10360-
Measuring Machines			08:2013 Annex D
(AACMM) with Optical			
Distance Sensors:			
	Sphere Diameter:		T
Articulated Location Value	50.8 mm	4.4 μm	Test Sphere
Laser Line Probe (LLP):			Internal Procedure:
	Cylinder Diameter:		
Diameter	25.4 mm	1.8 µm	Reference Cylinder
	25.4 mm	3.8 µm	
	25.4 mm	7.0 μm	
Z Distance/Position			Calibrated Distance/
	(75 to 360) mm	1.5 μm	Position by Laser
	(80 to 230) mm	2.9 µm	Interferometer
Faro Laser Tracker:			ASME B89.4.19:2006
Ranging Length Measurement	(0.04 to 25) m	$(2 + 0.4L) \mu m$	Reference Laser Tracker
Faro Laser Tracker:			ASME B89.4.19:2006
Transverse Length	(0.23 to 6.2) m	$(8 + 1.2X) \mu m$	Reference Laser Tracker
Measurement			Kinematic Scale Bars

Calibration and Measurement Capability (CMC) is expressed in terms of the measurement parameter, measurement range, expanded uncertainty of measurement and reference standard, method, and/or equipment. The expanded uncertainty of measurement is expressed as the standard uncertainty of the measurement multiplied by a coverage factor of 2 (k=2), corresponding to a confidence level of approximately 95%.

Notes:

- 1. On-site calibration service is available for this parameter, since on-site conditions are typically more variable than those in the laboratory, larger measurement uncertainties are expected on-site than what is reported on the accredited scope.
- L = Length in meters, X = the perpendicular distance from the tracker to the space frame.
- 3. Point measurements do not have a range.
- 4. This scope is formatted as part of a single document including Certificate of Accreditation No. L1147.07-1.



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