



CERTIFICATE OF ACCREDITATION

The ANSI National Accreditation Board

Hereby attests that

FARO Technologies – Banmai
90 Moo 1, Tiwanon Rd
Banmai, Muang, Pathumthani 12000
THAILAND

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.

A handwritten signature in black ink, appearing to read 'R. Douglas Leonard Jr.', is positioned above a horizontal line.

R. Douglas Leonard Jr., VP, PILR SBU

Expiry Date: 25 January 2024
Certificate Number: L1147.15-1



This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017.
This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory
quality management system (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

FARO Technologies – Banmai

90 Moo 1, Tiwanon Rd
 Banmai, Muang, Pathumthani 12000
 THAILAND
 Rachel Sowers
 407-333-9911

CALIBRATION

Valid to: **January 25, 2024**

Certificate Number: **L1147.15-1**

Length-Dimensional Metrology

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-) ²	Reference Standard, Method, and/or Equipment
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
Articulated Arm Coordinate Measurement Machine (AACMM):			B89.4.22-2004 and ISO 10360-12:2016
Single Point Articulation Performance	N/A ³	0.41 µm	Test Sphere

Length-Dimensional Metrology

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-) ²	Reference Standard, Method, and/or Equipment
Articulated Arm Coordinate Measuring Machines (AACMM) with Optical Distance Sensors: Articulated Location Error	Sphere Diameter: 50.8 mm	4.4 μm	Based on ISO 10360-08:2013 Annex D Test Sphere
Laser Line Probe (LLP): Diameter Z Distance/Position	Cylinder Diameter: 25.4 mm (75 to 360) mm	1.8 μm 1.5 μm	Internal Procedure: Reference Cylinder Calibrated Distance/ Position by Laser Interferometer
FARO Laser Tracker: High Accuracy Ranging Length Measurement	(0 m to 48) m	(1.1 + 0.16L) μm	ISO 10360-10:2016 (Table 4) ASME B89.4.19:2006 IFM Integrated Automated ADM Rail. Direct Comparison to Laser Interferometer
FARO Laser Tracker: Ranging Length Measurement	(0.04 to 70) m	(2 + 0.4L) μm	ISO 10360-10:2016 (Table 4) ASME B89.4.19:2006 Reference Laser Tracker
FARO Laser Tracker: Transverse Length Measurement	(0.23 to 6.2) m	(8 + 1.2X) μm	ASME B89.4.19:2006 Reference Laser Tracker Kinematic Scale Bars
FARO Laser Tracker: Transverse Length Measurement	(0.5 to 6.2) m	4.9 μm	ISO 10360-10:2016 (Tables 4 and 5) Kinematic Scale Bars

Length-Dimensional Metrology

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-) ²	Reference Standard, Method, and/or Equipment
FARO Laser Tracker: Probing Error of Form	(0.5 to 2) m	1.0 μm	ISO 10360-10:2016 Reference Sphere
FARO Laser Tracker: Probing Error of Size	(0.5 to 2) m	1.6 μm	ISO 10360-10:2016 Reference Sphere
FARO Laser Tracker: Orientation Error of Six-DOF Probe	2.5 m to 10 m	2.0 μm	ISO 10360-10:2016

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.
2. 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. L1147.15-1.



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