

Calibration Service for “Level Staff (ISO 12858-1 Surveying Level Staff)”

SINTOKOGIO, Ltd. offers calibration services for “surveying level staff” as a JCSS accredited laboratory in the field of “length measuring instruments”.

The measuring scope ranges up to 3005mm.

We offer calibration services*1 for “ISO12858-1 invar staff” which is a surveying level staff.

*1: Calibration services are not equivalent to examinations. For examinations, please contact the Japan Association of Surveyors.

Our calibration services conform to ISO/IEC 17025:2017.

Type of Service		Calibration item		Maximum Measuring Capacity (Confidence Level: 95%) (L: Nominal Length (mm))
		Scope Category	Specification of Calibration Item	
Length Measuring Instrument	Rules	ISO12858-1 Surveying Level Staff	Coefficient of Thermal Expansion: 1×10^{-6} or less	3005mm or less: $5+L/3000 \mu\text{m}^{-2}$
	Rules (Starting Points of Edge)	ISO12858-1 Surveying Level Staff	Coefficient of Thermal Expansion: 1×10^{-6} or less	3005mm or less: $12 \mu\text{m}^{-2}$

*2: When the coefficient of the thermal expansion is 0×10^{-6}

Calibration Device “SCS-4000”

We developed our own calibration device to accurately calibrate ISO12858-1 surveying level staff. This device was developed based on basic technology used in our 2D and 3D coordinate measuring machines, and uses the laser interferometer as its standard of length.

The value obtained from the laser interferometer is used as the calibration value. The laser wavelength of the laser interferometer is calibrated with our specified secondary standard equipment; the “I₂ wavelength stabilization He-Ne laser device”.

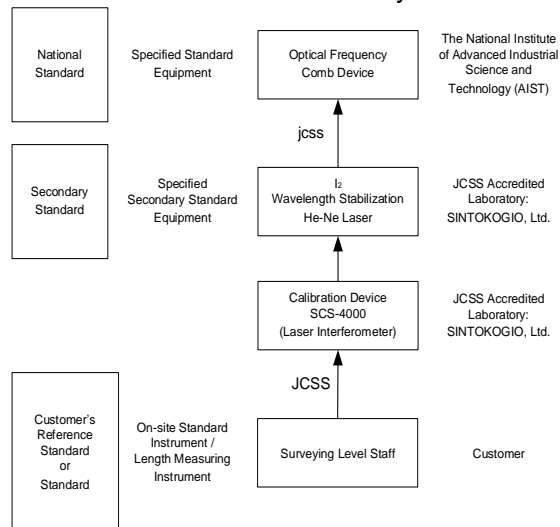
Calibration Device



ILAC-MRA Certificate of Accreditation



Traceability



Contact:

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