

MODEL PG103-G

Goniometer Calibration Process

As the manufacturer of high-precision angle-finding goniometer devices, we adhere to stringent calibration standards to ensure the utmost accuracy and reliability of our products. The specialized machinist angle plates standards were used for calibration and inspection. The calibration process adhered to principles outlined in the following specific NIST (National Institute of Standards and Technology) documentation:

1. NIST Special Publication 250-41: principles followed similar to calibration services for spectroradiometric detectors and photodiodes.
2. NIST Technical Note 1297: This publication, "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Results," informs our calculation of measurement uncertainty, ensuring that all potential sources of error are comprehensively assessed.
3. NIST Handbook 150: This handbook, "NVLAP Procedures and General Requirements," includes protocols for maintaining environmental conditions during calibration activities.

By rigorously following principles articulated in the above NIST documentation, we work to provide devices that deliver precise and consistent angle measurements, meeting the highest standards of quality and reliability.