



THE AMERICAN ASSOCIATION FOR
LABORATORY ACCREDITATION

ACCREDITED LABORATORY

A2LA has accredited

Q-LAB CORPORATION

Westlake, OH

for technical competence in the field of

Calibration

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 *General Requirements for the Competence of Testing and Calibration Laboratories* and any additional program requirements in the field of calibration. 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 18 June 2005*).

Presented this 5th day of December 2007.

A handwritten signature in cursive script that reads "Robert M. Robinson".

Interim President
For the Accreditation Council
Certificate Number 2383.01
Valid to November 30, 2009



For the calibrations to which this accreditation applies, please refer to the laboratory's Calibration Scope of Accreditation.

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

Q-LAB CORPORATION
800 Canterbury Road
Westlake, OH 44145
Greg Fedor Phone: 440 835 8700

CALIBRATION

Valid To: November 30, 2009

Certificate Number: 2383.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following calibrations¹:

I. Optical Radiation

Parameter/Equipment	Range	Best Uncertainty ² (±)	Comments
Irradiance and Radiometers	(250 to 800) nm	5.5 % of reading	For UV and visible light sensors used in weathering devices such as xenon arc and fluorescent UV
Control Parameters in Weathering Instruments ^{3,4} –			As used in artificial weathering instruments
Temperature	0 °C to 150 °C	0.13 °C	Digital thermometer
Relative Humidity	10 % to 95 % RH	3.4 % RH	Rotronic hygropalm
Irradiance	(250 to 800) nm	5.8 % of reading	Master radiometer

Parameter/Equipment	Range	Best Uncertainty ² (±)	Comments
Control Parameters in a MTG (Gravelometer) ^{3,4} –			Only as used in a MTG (Gravelometer)
Air Pressure	(10 to 100) psi	2.1 psi	Pressure monitor
Dimension	(0.2610 to 0.2840) in	0.0002 in	Go/No-Go plug gages

¹ This laboratory offers commercial calibration service and on-site calibration services, where noted.

² “Best Uncertainty” is the smallest uncertainty of measurement that a laboratory can achieve within its scope of accreditation when performing more or less routine calibrations of nearly ideal measurement standards of nearly ideal measuring equipment. Best uncertainties represent expanded uncertainties expressed at approximately the 95 % level of confidence, usually using a coverage factor of $k = 2$. The best uncertainty of a specific calibration performed by the laboratory may be greater than the best uncertainty due to the behavior of the customer’s device and to influences from the circumstances of the specific calibration.

³ On-Site calibration service is available for this parameter. The uncertainties achievable on a customer's site can normally be expected to be larger than the Best Measurement Capabilities (BMC) that the accredited laboratory has been assigned as Best Uncertainty on the A2LA Scope. Allowance must be made for aspects such as the environment at the place of calibration and for other possible adverse effects such as those caused by transportation of the calibration equipment. The usual allowance for the uncertainty introduced by the item being calibrated, (e.g. resolution) must also be considered and this, on its own, could result in the calibration uncertainty being larger than the BMC.”

⁴ This includes but is not limited to all Q-Lab Corporation Products MTG, fluorescent UV and Xenon-arc testers.