



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

Q-LAB DEUTSCHLAND GMBH
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CALIBRATION

Valid To: March 31, 2020

Certificate Number: 2383.04

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	CMC ² (±)	Comments
Irradiance and Radiometers	(250 to 800) nm	6.5 % 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 to 150) °C	0.25 °C	Digital thermometer
Relative Humidity	(10 to 95) % RH	3.4 % RH	Rotronic hygropalm
Irradiance	(250 to 800) nm	6.8 % of reading	Working radiometer
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	(0.261 to 0.284) in	0.0002 in	Go/No-Go plug gages

¹ This laboratory offers commercial calibration service and field calibration services.

² Calibration and Measurement Capability (CMC) 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 or nearly ideal measuring equipment. Calibration and Measurement Capabilities represent expanded uncertainties expressed at approximately the 95 % level of confidence, usually using a coverage factor of $k = 2$. The actual measurement uncertainty of a specific calibration performed by the laboratory may be greater than the CMC due to the behavior of the customer's device and to influences from the circumstances of the specific calibration.

³ Field calibration service is available for this calibration and this laboratory meets A2LA R104 – *General Requirements: Accreditation of Field Testing and Field Calibration Laboratories* for these calibrations. Please note the actual measurement uncertainties achievable on a customer's site can normally be expected to be larger than the CMC found 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 actual uncertainty introduced by the item being calibrated, (e.g. resolution) must also be considered and this, on its own, could result in the actual measurement uncertainty achievable on a customer's site being larger than the CMC.

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



Accredited Laboratory

A2LA has accredited

Q-LAB DEUTSCHLAND GMBH

Saarbrücken, GERMANY

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*. This laboratory also meets R205 – Specific Requirements: Calibration Laboratory Accreditation Program. 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 8 January 2009*).



Presented this 10th day of January 2018.

A handwritten signature in black ink, written over a horizontal line.

President and CEO
For the Accreditation Council
Certificate Number 2383.04
Valid to March 31, 2020

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