GOSSEN
GMC-INSTRUMENTS GROUP

Calibration Service

GFL 8532-FB

Please fill in a seperate form sheet for each Device

Please let us know the **technical** contact person in your company Dear Customer, Name Thank you for choosing a Calibration in our company. We may offer you several forms of calibration, described below. Telephone No Thus, and in order to execute your order as fast and smoothly as possible, i.e. without further questions to you, we ask you to fill in this form and to add it to the meter being sent in to us. E-Mail You can find further information on our Homepage, www.gossen-photo.de or in our Info on the Light Lab. Calibration Object Manufacturer Туре Serial Number Device Accessories Accredited Calibration (DAkkS-Calibration) Calibration for NDT (Illuminance and Irradiance at 365nm) ISO/IEC 17025 compliant calibration protocol. Only for meters that can measure illuminance and UV-A 365nm. We will calibrate the following values: 20 lx, 100 lx, 1.000 lx and 100 μW/cm², 1.000 μW/cm², 5.000 μW/cm². Three values will be calibrated each for Illuminance and Irradiance Calibration of Illuminance ISO/IEC 17025 compliant calibration protocol. Measured values chosen by Gossen fitting for the meter or customer values. Three values in the range of 1,75 lx to 2000 lx. Calibration of Irradiance at 365nm ISO/IEC 17025 compliant calibration protocol. Measured values chosen by Gossen fitting for the meter or customer values. Three values in the range of 100 µW/cm² to 6000 µW/cm² Additional Measuring Values for the Calibration (not for NDT) Up to five additional values (up to a maximum of eight in total). Please state them below. More than half of the measured values must be within the accredited range (< 2000 lx or < 6000 µW/cm²). The additional values can be in the range of 1,75 lx to 20000 lx or 100 μW/cm² to 10000 μW/cm². **Additional Factory Calibration** If required, you can combine the accredited calibration (DAkkS-Calibration) with a factory calibration. This can be the case if you need many of values of if you need very high values that can't be added to the "DAkkS-Calibration-П Certificate" Please choose a calibration on the next page, that fits your needs. Statement of Conformity for Accredited Calibration Please note the information on page 3 No statement of Confomity Default, no Statement of Conformity is issued in the calibration certificate Statement of Confomity with Rule 1 - "Shared Risk" Binary Statement of conformity without consideration of Measurement Uncertainty - please state needed tolerance below Statement of Confomity with Rule 2 - With Guard Band = Measurement Uncertainty Recommended only for very high-quality illuminance meters (see page 3). Irradiance has a measurement uncertainty of at least 10.0% and often higher instrument deviations. \bigcirc Therefore a tolerance below 13.0% for irradiance is usually unfeasible! We reserve the right to change Rule 2 to Rule 1 without prior notice if the desired evaluation is not reasonably possible. e.g., if 3.0% is desired for irradiance. Binary Statement of conformity with consideration of Measurement Uncertainty - please state needed tolerance below Tolerance: Needed Tolerance for Rule 1 and 2

Common values are 3,0%, 5,0% or the device Tolerance

(if stated by the manufacturer)



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Factory Calibration / Proprietary Calibration					
Calibration of Illuminance					
	With ISO 9001 compliant calibration protocol. Measured values are fitted to the measuring ranges of the meter. Depending on the accuracy of the meter, we will calibrate values in the range of 5 lx to 50.000 lx.				
	Calibration of Luminance				
	With ISO 9001 compliant calibration protocol. Measured values are fitted to the measuring ranges of the meter. Depending on the accuracy of the meter, we will calibrate values in the range of 5 cd/m² to 10.000 cd/m².				
	Calibration of Irradiance at 365nm With ISO 9001 compliant calibration protocol. Measured values are fitted to the measuring ranges of the meter. Depending on the accuracy of the meter, we will calibrate values in the range of 100 μW/cm² to 10.000 μW/cm².				
	Additional Measuring Values for the Calibration				
Up to five additional values additionally to our fitted values. Please state your desired values below. Additional values from the range 1 lx to 200 klx, 0,1 cd/m² to 50 kcd/m² or 100 μW/cm² to 10.000 μW/cm². Attention: Values above 50klx or 10kcd/m² are only possible for devices of class C or better according to DIN 5032-7.					
	Special Measuring Values for the Calibration				
	We can also calibrate values of your choice instead of values defined by us. Please state your desired values below. You can choose up to a maximum of 25 values total. The ranges and limitations of the additional values apply.				
Adjus	stment				
	Devices from other manufacturers than GOSSEN cannot be adjusted.				
_	An adjustment of GOSSEN devices is included in the price for calibration.				
	Since we do not adjust devices without customer approval for reasons of quality assurance, we do not adjust devices				
	even if the measuring deviation is greater than 3%.				
	If you agree to an adjustment if needed, please mark that below.				
П	Adjustment with Calibration				
	The device will only be adjusted if the measuring deviation is greater than 3%. Without protocol before adjustment.				
	Calibration, Adjustment, second Calibration				
	Additional protocol for values before adjustment. Two protocols in total (double the cost). The device will only be adjusted if the measuring deviation is greater than 3%.				
Additi	ional Values, Customer-specific Values, Special Requests, Comments				



Calibration Service

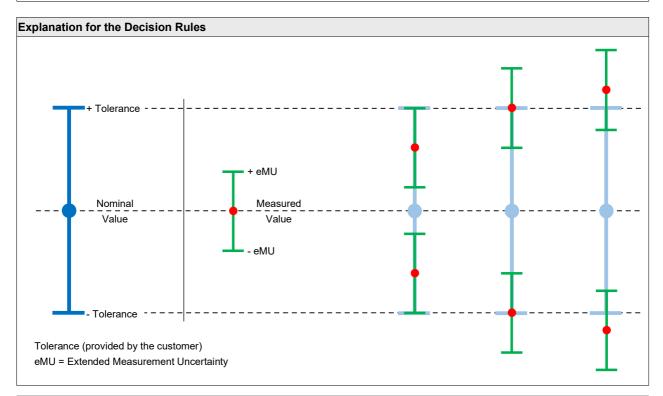
Please fill in a seperate form sheet for each meter

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Statement of Conformity for accredited Calibration



The DIN EN ISO/IEC 17025:2018 demands that the customer makes a statement if he wants a Statement of Conformity for every accredited calibration. If needed the customer has to state what decision rule to use. Without this statement we must not start the calibration.



Chosen Decision Rule	Case Example		
Rule 1, level of reliability medium	pass	pass	fail
Rule 2, level of reliability high	pass	fail	fail

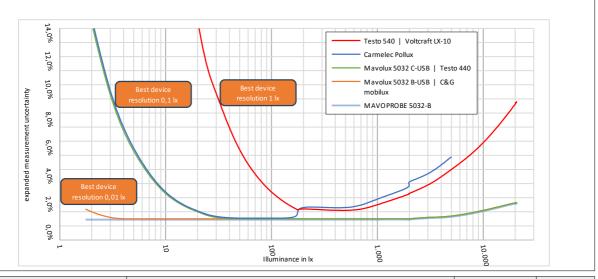
Level of reliability high: The probability that the measurement is within the tolerance is \geq 95% Level of reliability medium: The probability that the measurement is within the tolerance is \geq 50%

The percentages, e.g. ≥ 50%, are statistical values and cannot be interpreted to mean that the results are wrong 50% of the time!

Typical Measurement Uncertainty Illuminance

For small measured values, the measurement uncertainty is mostly dependent on the resolution of the device. For large measured values, mechanical factors of the measuring head are more decisive.

It is easily apparent in the graph below, that for some measuring instruments, the measurement uncertainty for small measured values quickly exceeds the stated instrument's tolerance.



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GFL 8532-FB Kalibrierservice (EN)