



CERTIFICATE OF ACCREDITATION

ANSI National Accreditation Board

11617 Coldwater Road, Fort Wayne, IN 46845 USA

This is to certify that

Gentec Électro-Optique Inc.
Gentec Electro-Optics, Inc.
445 St-Jean-Baptiste, Suite 160
Quebec, QC, Canada G2E 5N7

has been assessed by ANAB and meets the requirements of international standard

ISO/IEC 17025:2017

while demonstrating technical competence in the field of

CALIBRATION

Refer to the accompanying Scope of Accreditation for information regarding the types of activities to which this accreditation applies

AC-2666

Certificate Number



ANAB Approval

Certificate Valid Through: 04/02/2021
Version No. 002 Issued: 12/27/2019



This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017.
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 April 2017).



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

Gentec Électro-Optique inc.
Gentec Electro-Optics, Inc.

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CALIBRATION

Valid to: **April 2, 2021**

Certificate Number: **AC-2666**

Electrical – DC/Low Frequency

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
Calibration of Power Monitors by Electrical Simulation – Photodiode ¹	(0.1 to 0.99) μ W (0.001 to 0.99) μ A	0.5 % of reading + 0.6R	DC Current Source, 6 1/2 Digit Digital Multimeter
	1 μ W to 1 W 1 μ A to 20 mA	0.25 % of reading + 0.6R	
Calibration of Power Monitors by Electrical Simulation ^{1,2}	500 nW to 30 kW 0.5 mV to 2.5 V	0.25 % of reading + 0.6R	
Calibration of Energy Monitors by Electrical Simulation ^{1,2}	50 fJ to 7.5 kJ 0.5 mV to 2.5 V	0.25 % of reading + 0.6R	

Photometry and Radiometry

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
Optical Power Meter – UP Series	Power and Sensitivity: (0.1 μ V/W to 10 V/W) (0.5 to 500) W 1 064 nm & 10.6 μ m (248 to 299) nm (300 to 2 200) nm (2 201 to 2 500) nm	2.5 % of reading 3.8 % of reading 2.7 % of reading 7.9 % of reading	UV to FIR Laser Source, Monochromator, Laser Power Meter, Laser Power Meter Monitor, Reflectance Tiles, Spectrophotometer, Digital Multimeter



Photometry and Radiometry

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
Optical Power Meter – High Power	Power and Sensitivity: (15 μ V/W to 15 V/W) 100 W to 10 kW 1 064 nm (248 to 299) nm (300 to 2 200) nm (2 201 to 2 500) nm (100 to 300) W 10.6 μ m	4 % of reading 4.9 % of reading 4.2 % of reading 8.5 % of reading 4.7 % of reading	Laser Source, Monochromator, Laser Power Meter, Laser Power Meter Monitor, Reflectance Tiles, Spectrophotometer, Digital Multimeter
Optical Power Meter – PH Series Si-HA	Power and Sensitivity: (5 mA/W to 2 A/W) 5 nW to 10 mW (350 to 399) nm (400 to 449) nm (450 to 809) nm (810 to 899) nm (900 to 1 009) nm (1 010 to 1 080) nm	5 % of reading 2 % of reading 1.5 % of reading 2 % of reading 4 % of reading 7.5 % of reading	
Optical Power Meter – PH Series Ge and In	Power and Sensitivity: (5 mA/W to 2 A/W) 5 nW to 10 mW (800 to 1 049) nm (1 050 to 1 559) nm (1 560 to 1 650) nm	5 % of reading 3.5% of reading 7 % of reading	
Optical Power Meter – PH Series Pronto-Si	Power and Sensitivity: (5 mA/W to 2 A/W) 5 nW to 10 mW (320 to 399) nm (400 to 449) nm (450 to 809) nm (810 to 899) nm (900 to 1 009) nm (1 010 to 1 100) nm	6 % of reading 2 % of reading 1.5 % of reading 2 % of reading 4 % of reading 7.5 % of reading	



Photometry and Radiometry

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
Optical Power Meter – PH Series Si-UV	Power and Sensitivity: (5 mA/W to 2 A/W) 5 nW to 10 mW (210 to 229) nm (230 to 254) nm (255 to 399) nm (400 to 899) nm (900 to 1 009) nm (1 010 to 1 080) nm	18 % of reading 8 % of reading 6.5 % of reading 2.5 % of reading 4 % of reading 7.5 % of reading	Laser Source, Monochromator, Laser Power Meter, Laser Power Meter Monitor, Reflectance Tiles, Spectrophotometer, Digital Multimeter
Optical Energy Meter – QE Series	Energy and Sensitivity: (0.1 V/J to 4 kV/J) 0.4 mJ to 150 mJ 1064 nm & 10.6 μm (248 to 299) nm (300 to 2 200) nm (2 201 to 2 500) nm 0.4 mJ to 150 mJ 10.6 μm	2.6 % of reading 3.9 % of reading 2.8 % of reading 7.9 % of reading 2.8 % of reading	UV to FIR Laser Source, Monochromator, Laser power meter, Laser Power Meter Monitor, Reflectance Tiles, Spectrophotometer, USB Multifunction I/O Device
Optical Energy Meter – UP and Calorimeter Series	Energy and Sensitivity: (1 μV/J to 50 mV/J) 0.5 J to 2500 J 1064 nm & 10.6 μm (248 to 299) nm (300 to 2 200) nm (2 201 to 2 500) nm 0.5 J to 2500 J 10.6 μm	3.4 % of reading 4.4 % of reading 3.6 % of reading 8.2 % of reading 5.7 % of reading	UV to FIR Laser Source, Monochromator, Laser power meter, Laser Power Meter Monitor, Reflectance Tiles, Spectrophotometer, USB Multifunction I/O Device
Optical Energy Meter – PE Series	Energy and Sensitivity: (0.1 V/μJ to 300 V/nJ) 10 pJ to 33 nJ (210 to 229) nm (230 to 254) nm (255 to 399) nm (400 to 899) nm (999 to 1 009) nm (1 010 to 1 080) nm	18 % of reading 8 % of reading 6.5 % of reading 2.5 % of reading 4 % of reading 7.5 % of reading	UV to FIR Laser Source, Monochromator, Laser power meter, Laser Power Meter Monitor, Reflectance Tiles, Spectrophotometer, USB Multifunction I/O Device

Calibration and Measurement Capability (CMC) is expressed in terms of the measurement parameter, measurement range, expanded uncertainty of measurement and reference standard, method, and/or equipment. The expanded uncertainty of measurement is expressed as the standard uncertainty of the measurement multiplied by a coverage factor of 2 ($k=2$), corresponding to a confidence level of approximately 95%.

Notes:

1. R = resolution of unit under test.
2. Into loads from 100 k Ω to 1 M Ω .
3. This scope is formatted as part of a single document including Certificate of Accreditation No, AC-2666.



Vice President

