



NEWPORT CORPORATION
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PA25960TW
 CERTIFICATE NUMBER

CERTIFICATE OF CALIBRATION

Model No: 2936-R
 Serial No: 41454
 Description: Dual-Channel Optical Meter
 Customer Name: Initial Purchaser
 Address: _____
 Calibrated Per Procedure No: PTP-44942-01

Environment Conditions

Temperature: 25.2 °C
 Relative Humidity: 47 %

Standards Used				Calibration Traceability Number
Model	Serial or ID No.	Description	Cal Due Date	
Keithley 263	62722	Current Source	03-MAR-2018	17-03-BCC-014-01
Agilent 34970A	US37002199	Acquisition/Switch	26-FEB-2018	17-02-NEB-076-06
Agilent 33120A	US36046789	Function Gen.	05-MAR-2018	17-03-BCC-014-02
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

Newport certifies that the calibration that was performed using Standards that are traceable to the National Institute of Standards and Technology (NIST), other recognized national standards laboratories, using natural physical constants, or ratio calibration techniques. The calibration complies with ANSI/NC SL Z540-1-1994 and ISO-9001. This certificate shall not be reproduced except in full, without the written approval of Newport. Specific information concerning parameters and measurements is in attachment(s). Calibration ratio is at least 4:1 unless otherwise stated.

Calibration Date: 18-Oct-17
DD-MMM-YY
 Calibration By: T.Y.Y T.Y.Y
Print/Sign
 Reviewed By: T.Y.Y
 Title: Technician

Newport
 SN 41454
 CALIBRATED BY T.Y.Y
 DATE

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 DUE

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DD MMM YY

Newport recommends recalibration 12 months after customer receives product. Fill in the date and due date on the calibration sticker. Remove and apply it to the instrument as required.

Calibration Data

MODEL: 2936-R SERIAL: 41454 TEST BY: T.Y.Y DATE: 18OCT2017

Table 1. Current Zero Offset

Channel	Range	Current Source	Tolerance	Reading
A	0	0.0000pA	±25pA	-0.6549pA
B				-1.4213pA

Table 2. Analog Output Accuracy*

Channel	1V Range	2V Range	5V Range	10V Range
A	500.7487mV	1.0011V	2.5013V	4.9987V
B	499.7122mV	999.0851mV	2.4952V	4.9904V

Table 3. DC Current Accuracy

Channel	Range	Current Source	Tolerance	Reading
A	0	1.2500nA	±0.005nA	1.2505nA
B				1.2515nA
A	1	12.500nA	±0.05nA	12.4998nA
B				12.5004nA
A	2	125.00nA	±0.5nA	125.0066nA
B				125.0170nA
A	3	1.2500uA	±0.005uA	1.2501uA
B				1.2502uA
A	4	12.500uA	±0.05uA	12.5024uA
B				12.5039uA
A	5	125.00uA	±0.5uA	125.0004uA
B				125.0095uA
A	6	1.2500mA	±0.005mA	1.2500mA
B				1.2500mA
A	7	12.500mA	±0.05mA	12.4993mA
B				12.5007mA

Calibration Data

Table 4. DC Voltage Accuracy

Channel	Range	Voltage Source	Tolerance	Reading
A	0	1.250mV	±7.5uV	1.2501mV
B				1.2457mV
A	1	12.500mV	±75.0uV	12.5018mV
B				12.4913mV
A	2	125.000mV	±0.75mV	125.0273mV
B				125.0271mV
A	3	1.25000V	±7.5mV	1.2498V
B				1.2500V
A	4	12.5000V	±75.0mV	12.4990V
B				12.5005V
A	5	65.000V	±90.0mV	64.9882V
B				64.9960V

* Measured at Range 0 with input set at middle of range.
Window CE license # 00039-732-122-541