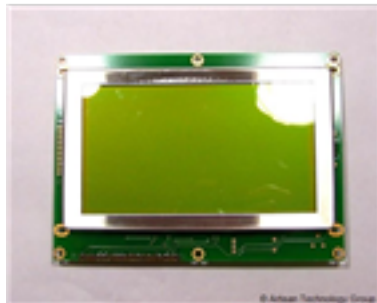


Newport 2411H1-0M
Display



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Temperature Controller Specifications (all modules)

TEC Output

Type	Bipolar, low noise
Maximum Current (A)	2.5
Compliance Voltage (V)	>6
Typical Power (W)	15

Current Limit

Range (A)	0–2.5
Accuracy (mA)	±10
Ripple/Noise (rms) (mA)	<1
Short-Term Stability (1 h)	0.0005°C
Long-Term Stability (24 h)	0.001°C
Temperature Coefficient	<0.05°C/°C

TEC Measurement Display

Temperature	-100.00 to +240.00°C
Resistance (10 µA) (kΩ)	0.01–495
Resistance (100 µA) (kΩ)	0.001–49.5
TE Current (A)	-2.500 to +2.500
Temperature	0.01°C
Resistance (10 µA) (Ω)	10
Resistance (100 µA) (Ω)	1
TE Current (mA)	1
Temperature ⁽⁴⁾	Typical ±0.1°C
Resistance (10 µA) ⁽⁵⁾	±(0.04% + 16Ω)
Resistance (100 µA) ⁽⁵⁾	±(0.05% + 8Ω)
TE Current ⁽⁵⁾	±(0.3% + 2 mA)

Temperature Sensor

Sensor Type	NTC, 2-wire Thermistor
Sensor Bias (µA)	10/100
Thermistor Calibration	
$1/T = (C1 \cdot 10^{-3} + (C2 \times 10^{-6})(\ln R) + (C3 \times 10^{-7})(\ln R)^2)$	

- 1) True rms, 3 Hz–300 kHz, 1/2 FS, resistive load
- 2) Fixed—If desired, specify 0–5 V at time of order
- 3) ± (x% Reading + Fixed Error)
- 4) Temperature is a value derived from the sensor's parameter (resistance) using the thermistor calibration equations. Accuracy can be computed by applying the sensor's parameter to the above equation at the temperature in question.
- 5) May be lower with common anode/thermistor package
- 6) Output current may begin to roll-off at higher frequencies

Combination LDD & TEC Module Specifications

	8605 8605-SO 8605-5V	8610 8610-SO 8610-5V	8630 8630-SO 8630-5V
Laser Diode Driver Selection			
Laser Output			
Output Current Range (mA)	0–500	0–1000	0–3000
Output Current Resolution (mA)	0.0076	0.0153	0.0458
Output Current Accuracy ⁽³⁾	±(0.03% + 15 µA)	±(0.03% + 30 µA)	±(0.03% + 90 µA)
Compliance Voltage (V) ⁽⁶⁾	7	7	5
Temperature Coefficient (ppm FS/°C)		<50	
Short-Term Stability (1 h) (ppm FS)		<10	
Long-Term Stability (24 h) (ppm FS)		<50	
Noise/Ripple (rms) (µA) ⁽¹⁾	<2	<5	<10
Current Limit			
Range (mA)	0–500	0–1000	0–3000
Resolution (mA)		1	
Accuracy (mA)	±2	±2	±4
Internal Function Generator			
Waveforms	Sinewave, Squarewave		
Frequency Range ⁽⁶⁾	200 Hz –300 kHz		
Squarewave Duty Cycle	50 ±5%		
Independent Output Set Points	I _{max} , I _{min}		
Frequency Jitter	<1%		
Frequency Accuracy	±5%		
Amplitude Accuracy	±5%		
Sinewave THD	<2%		
Squarewave Risettime (µsec)	<1	<5	<10
Photodiode Input			
Monitor Current Range (mA)	0–5	0–5	0–20
Monitor Current Stability (24 h)	±0.02% FS		
Monitor Current Accuracy ⁽³⁾	±(0.004% + 0.5 µA)	±(0.004% + 0.5 µA)	±(0.004% + 1 µA)
Temperature Coefficient	<0.02% FS/°C		
Photodiode Reverse Bias ⁽²⁾	5 VDC for "-5V" versions. The others have PD bias of zero.		
Measurement Display			
Output Current Range (mA)	0–500.00	0–1000.0	0–3000.0
Output Current Resolution (mA)	0.01	0.1	0.1
Output Current Accuracy ⁽³⁾	±(0.02% + 20 µA)	±(0.02% + 200 µA)	±(0.02% + 200 µA)
Forward Voltage Range (V)	0.000–7.000	0.000–7.000	0.000–5.000
Forward Voltage Resolution (mV)	1		
Forward Voltage Accuracy ⁽³⁾	±(0.005%+1 mV)		
Photodiode Current Range (µA)	5–5000	5–5000	15–20,000
Photodiode Current Resolution (µA)	0.1		
Photodiode Current Accuracy ⁽³⁾	±(0.01% + 0.5 µA)	±(0.01% + 0.5 µA)	±(0.01% + 1 µA)
PD Response Range (µA/mW)	0.00–600.00		
PD Response Resolution (µA/mW)	0.01		
Optical Power Range (mW)	0.00–500.00	0.00–1000.00	0.00–3000.00
Optical Power Resolution (mW)	0.01	0.01	0.1

"-SO" Combo modules indicate the Sync Out version, enabling synchronized modulation among modules.

"-5V" Combo modules are provided with a permanent 5 VDC bias applied across the monitor photodiode pins. Note that this is not user adjustable.

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