

7244 MULTISOURCE MULTICHANNEL LASER DRIVER



The 7244 MultiSource laser diode drivers feature the same precision and protection found in our benchtop products, giving you a seamless transition from benchtop to high density. Optional analog modulation extends control outside the box, and Ethernet and USB provide easy computer connectivity options.



OVERLAPPING LASER PROTECTION

Including safety interlock, ESD protection, hardware limits for current & voltage, and soft power-on.



MULTIPLE OPERATING MODES

Choose from: Constant Current Constant Power Constant Voltage



REMOTE VOLTAGE SENSING

Supports an extra pair of sensing wires to measure the operating voltage of your laser diode or LED.



ANALOG MODULATION

Bandwidths up to 18 kHz.



FTHERNET INTERFACE

The built-in Ethernet interface allows the 7244 to be easily accessed via a network and integrated into larger system applications.



SIMPLE USER INTERFACE

Operational summary and individual channel information on an easy-to-read VFD display.



ELECTRICALLY ISOLATED CHANNELS

Each channel is fully electronically isolated and has independent set points, limits, and operating parameters.

AT-A-GLANCE

Current Ranges (per channel):

- ▶ 5 Amp / 56 Volt
- ▶ 8 Amp / 28 Volt
- ▶ 15 Amp / 14 Volt
- ▶ 30 Amp / 5 Volt

High Accuracy

▶ Up to 0.05% of reading + 0.025% of scale

Low Noise

► As Low as <5 mA

Compliance Voltages

▶ Up to 56 Volts available

Remote Operation via PC

- Use your existing control code.
 Our command set is compatible with other manufactuers.
- ▶ USB
- **▶** Ethernet



COMPACT MULTI-CHANNEL

The 7244 MultiSource Laser Driver provices 4 channels of fully independent laser control in just 2U of rack space.

And maintains the high performance of our benchtop units!

7244 MULTISOURCE LASER DRIVER **SPECIFICATIONS**

		7244-05-56	7244-08-28	7244-15-14	7244-30-05	
	Laser Current					
	Range (mA)	0 - 5,000	0 - 8,000	0 - 15,000	0 - 30,000	
	Resolution (mA)	0.1	0.2	0.5	1	
	Accuracy (\pm [% set + mA])	0.05% + 1.25	0.05% + 2.0	0.05% + 3.75	0.05% + 7.5	
	Stability (ppm, time)	< 10, 1 hour				
	Temperature Coeff (ppm/°C)	50				
	Noise/Ripple (mA rms)	< 5	< 8	< 10	< 15	
	Transients (mA)	20	30	50	100	
	Compliance Voltage (V)	56	28	14	5	
	Photodiode Current					
	Range (μA)	25 – 20,000				
int	Resolution (μA)	1				
Setpoint	Accuracy (\pm [% set + μ A])	0.05% + 2				
Sei	Stability (ppm, time)	< 200, 24 hours				
	Temperature Coeff (ppm/°C)	< 200				
	PD Bias (V)	-5V (fixed)				
	Laser Voltage					
	Range (V)	0 – 56	0 – 28	0 – 14	0 – 5	
	Resolution (V)	0.001				
	Accuracy (\pm [% set + V])	0.05% + 0.005				
	Stability (ppm, time)	< 50, 1 hour				
	Temperature Coeff (ppm/°C)	< 100				
	External Modulation					
	Input Range	0 – 10V, 10kΩ				
	Modulation Bandwidth (kHz)	18	15	12	10	

urement	Laser Current					
	Resolution (mA)	0.1	0.2	0.5	1	
	Accuracy (\pm [% reading + mA])	0.05% + 1.0	0.05% + 1.6	0.05% + 3	0.05% + 6	
	Laser Voltage					
	Resolution (V)	0.001				
Measi	Accuracy (\pm [% reading + V])	0.05% + 0.005				
ž	Photodiode Current					
	Resolution (μA)	0.1				
	Accuracy (\pm [% reading + μ A])	0.05% + 2				

	Laser Current	
	Resolution (mA)	1
its	Accuracy (± [% of range])	1%
Ë	Laser Voltage	
	Resolution (V)	0.1
	Accuracy (± [% of range])	2.5%

_	Laser Connector	4 x 13W3, female
	Computer Interface	USB 2.0 Full Speed (Type B), Ethernet (RJ45)
era	Power	90 – 240 V, 50 / 60 Hz
Gen	Size (H x W x D) [inches (mm)]	3.5 (89) x 19 (483) x 14.76 (375)
O	Operating Temperature	+10°C to +40°C
	Storage Temperature	-20°C to +60°C

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