

7244-05-56 MultiSource Laser Controller



Overview

The 7244-05-56 Laser MultiSource is an excellent multi-channel solution for driving strings of laser diodes. Each of the four output channels provides a fully independent, isolated output with individual analog modulation control.

- 5A / 56V output
- 2U Rackmountable
- Ethernet and USB
- 4 independent channels

Standard Computer Interfaces

The MultiSource includes both Ethernet and USB computer interfaces, allowing for quick and easy connection to a PC for remote operation. In addition, the command set is compatible with other Arroyo Instruments controllers, as well as those from ILX and Newport, allowing you to leverage any existing software you may have already developed.

Simple Local Control

While intended to be primarily operated from a PC, the display on the MultiSource allows you to locally monitor status and turn channels on and off.





Specifications

Number of Channels	4
Per Channel Specifications	
LASER CURRENT	
Range (mA)	0 - 5,000
Resolution (mA)	0.1
Accuracy (±[% set+mA])	0.05% + 1.25
Stability (ppm, time)	< 10, 1 hour
Temperature Coeff (ppm/°C)	50
Noise/Ripple (mA rms)	< 5
Transients (mA)	20
Compliance Voltage (V)	56
PHOTODIODE CURRENT	
Range (µA)	25 – 20000
Resolution (µA)	1
Accuracy (±[% set+µA])	0.05% + 2
Stability (ppm, time)	< 200, 24 hours
Temperature Coeff (ppm/°C)	< 200
PD Bias (V)	-3V, Fixed
LASER VOLTAGE	
Range (V)	0 – 56
Resolution (V)	0.001
Accuracy (±[% set+V])	0.05% + 0.005
EXTERNAL MODULATION	0
Input Range (V)	0 - 10
Modulation Bandwidth (kHz)	18
	4
Current Limit Accuracy (±% FS)	1
Voltage Limit Accuracy (±% FS)	2.5%
	Safety interlocks, adjustable
Safety Features	hardware voltage & current
	limits, output shorting relays, slow turn on / off circuits.
	slow turn on 7 on circuits.
GENERAL	
	2x20 VFD
Display Type Laser Connector	4 x 13W3, female
	USB 2.0 Full Speed (Type B),
Computer Interface	Ethernet (RJ45)
Input Power	90-250V, 50 / 60Hz
Size (H x W x D) [inches (mm)]	3.50 (89) x 19 (483) x 14.76 (375)
Weight (lbs [kg])	16.2 [7.4]
Operating Temperature	+10°C to +40°C

Operating Temperature Storage Temperature

LASER 2000

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-20°C to +60°C