

MULTI-LASER PID CONTROLLER

MLC Series

Stabilize the frequency of up to 8 lasers

The Bristol Instruments MLC Series Multi-Laser PID Controller provides the ability to stabilize the frequency of a laser connected to a wavelength meter using a proportional-integral-derivative (PID) feedback loop.

The MLC system was designed specifically for the Bristol Instruments 872 Laser Wavelength Meter that offers a frequency resolution as high as 200 kHz. Combined with the Bristol Instruments FOS Fiber-Optic Switch, as many as 8 lasers can be monitored and stabilized. This will benefit scientists and engineers involved in experiments, such as laser cooling and trapping, that require active regulation of laser frequency.



SPECIFICATIONS

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CONFIGURATIONS	4 or 8 Channels
CONNECTION TYPE	BNC (Female)
SIGNAL RANGE (VOLTAGE SPAN)	-10 V to +10 V
SIGNAL IMPEDANCE	50 Ohms
MAXIMUM CURRENT/CHANNEL	± 5 mAmps
RESOLUTION	16 bit
SWITCHING TIME	50 ms
DIMENSIONS (H x W x D)	2.5" x 5.5" x 9.0" (64 mm x 140 mm x 229 mm)
WEIGHT	2.5 lbs (1.1 kg)
POWER REQUIREMENTS	12v DC via external power supply
INSTRUMENT INTERFACE	USB with Windows-based display program Library of commands (DLL) for custom and LabVIEW programming
WARRANTY	1 year (parts and labor)

Bristol Instruments reserves the right to change the specifications as may be required to permit improvements in the design of its products. Specifications are subject to change without notice.