

# LDD LOCAL CONTROLLER



The LDD Local Controller can program and monitor an LDD power supply. Although LDD laser diode drivers are intended for OEM applications, the LDD Local Controller is a convenient way to operate these power supplies in a laboratory or R&D environment. The controller connects directly to the LDD laser diode driver and no external power source is required. The controller can perform all the interface functions required by the LDD interface. A front panel meter can be selected to monitor various current and voltage settings. A 10 turn potentiometer is used to program the output current of the LDD.



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## Advantages:

**Duplicates LDD Interface**

**No external power required**

**Front Panel Display**

**10 Turn Pot for Iprogram**

**Monitor:**

**Current program**

**Current & Voltage out**

## Applications:

**Engineering Prototypes**

**R& D Laboratories**

**Burn-in and testing**

# LDD LOCAL CONTROLLER

## Description of Control Function

CONTROL FUNCTION	DESCRIPTION
PROGRAM	1 turn pot to vary output current from 0 to Ioutmax
TOGGLE TO SELECT METER INPUT	This switch is toggled to select I-PROGRAM, V-MONITOR, or I-MONITOR meter display.
INTERLOCK	This switch simulates the interlock function of the LDD interface. When set to ON, interlock is closed. Interlock must be closed in order for power supply to deliver current to lamp.
ENABLE	On/Off Control for LDD. When ENABLE switch is ON, LDD will deliver current as programmed by the PROGRAM control.

## LDD CONTROLLER AUXILIARY CONNECTOR

Connector Type: 9 pin D-sub Female

*It is not necessary to connect to this connector for CW operation from the Control Box. This connector provides the ability to access the ENABLE and INTERLOCK functions. This connector also provides the ability to pulse the output.*

*Note: no connections on pins 2, 4, 6 & 7.*

PIN	PIN NAME	VOLTAGE LEVELS	DESCRIPTION
1	Enable (input)	High = RUN = +5V to +15V Low = OFF = 0V	The Enable function turns the output section of the power supply ON and OFF. When the power supply is enabled, current is delivered to load as programmed via the PROGRAM potentiometer on the LDD Controller. Rise times resulting from Enable are approximately 25msec. This is a soft start function and not intended for pulsing. To use this remote function, the ENABLE switch on the LDD Controller must be set to OFF
3	Interlock (input)	Open = OFF Connect to GND = RUN	The Interlock function can be connected to external interlock switches such as door or overtemp switches. To use this remote function, the Interlock function on the LDD Controller must be set to OFF.
5	PULSE (input)	+5V to +15V = Iprogram ON GND = Iprogram OFF	Grounding PULSE function to pin 8 or 9 will reduce the current program set by the LDDController PROGRAM potentiometer to 0A. This function can be used for low frequency pulsing (up to 1kHz) of LDD output. Rise/fall times of 1msec are typical.
8 & 9		GND	Interface GND



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