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Quantum Electronics

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Laser Diode Controllers

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LD/TEC Controllers

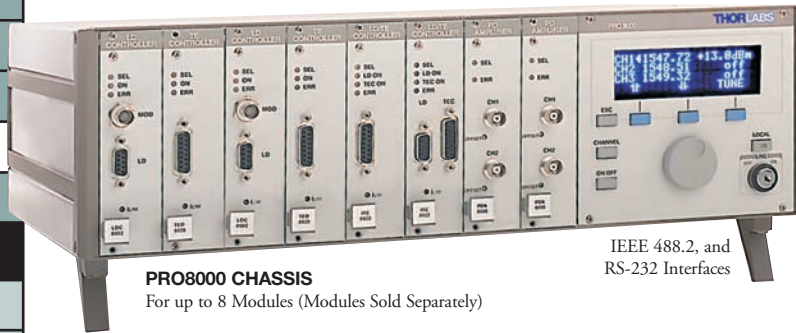
LD/TEC Platforms

LD Mounts

LED Drivers

LED Mounts

PRO8 Modular Controller Systems (Page 1 of 2)



PRO8000 CHASSIS

For up to 8 Modules (Modules Sold Separately)

IEEE 488.2, and
RS-232 InterfacesStand-Alone Operation
without PC

Three Versions

- **PRO800:** 2-Slot Modular Benchtop Chassis
- **PRO8000:** 8-Slot Modular Rack Chassis
- **PRO8000-4:** 8-Slot Modular Rack Chassis, High Power

PRO8 Series Platform
Shown in Mounting RackPictured System Powers
512 Lasers

Introduction

The PRO8 Series is a modular platform that provides a flexible solution to almost all laser diode control requirements. It is available in two versions: a compact benchtop unit for two modules (PRO800) or a 19" rack versions for up to eight modules (PRO8000). Together with an extensive range of modules (i.e., single or multi-channel current and temperature controllers, switches, photocurrent amplifiers, and laser sources), a PRO8 system can be configured for almost any application.

The PRO8 Series offers solutions to operate anywhere from one to hundreds of laser diodes. For example, a single PRO8000 19" rack with eight modules of our eight-channel drivers can drive 64 laser diodes. The PRO800 is an ideal choice for a flexible controller system for one or two lasers.

The standard PRO8000 can supply up to 16 A of total driving current for all installed modules; we also offer the PRO8000-4, which can supply up to 32 A of total driving current.

User-Friendly Controls

The PRO8 display menu allows easy configuration of any module in the chassis. Mnemonic symbols provide user-friendly access to all operational parameters. All settings are retained in memory and automatically recalled upon powering on the mainframe as long as modules are not moved to different slots during power down. Individual modules are automatically identified and, when selected, can be configured and controlled using the softkeys.

Interchangeable Modules

All modules can be driven in the compact PRO800, the 19" standard PRO8000, and the high-power PRO8000-4 mainframes. Aside from the size difference of the PRO800 and the heavy-duty power supply of the PRO8000-4, each chassis utilizes the same operating system and protocols. All chassis models can power any of the plug-in modules that are found in this section, as well as our selection of DFB laser modules (see pages 1170 - 1171).

Features

- Universal, Modular Platform
- Compact, 2-Slot Benchtop Version: PRO800, Ideal for Research
- Rack-Mountable, 8-Slot Version: PRO8000 /PRO8000-4 Chassis for Large Test and Manufacturing Environments
- PRO8000-4 Chassis for High-Power Applications
- Current and Temperature Controllers for Laser Diode Operation, Characterization, or Burn-In Applications
- Various Optical Modules Including WDM Laser Sources and Optical Switches for Component Testing in Production and Quality Control
- Remote Control via IEEE 488.2 and RS232 with Drivers for LabVIEW™ and LabWindows/CVI™

PRO8000-Compatible Modules
Laser Diode Controllers - See Page 1468

- 200 mA to 8 A

Multi-Channel Laser Diode Controllers
See Pages 1470 - 1471

- 5 mA to 200 mA

Temperature Controllers - See Page 1472

- ± 2 A or ± 8 A

Combination LD and TEC Controllers
See Page 1474

- ± 200 mA or ± 1 A Laser; 2 A TEC

Optical Switches - See Pages 1174 - 1175

- 1 x 2, 2 x 2, 1 x 4, and 1 x 8

Photodiode Amplifier - See Page 1176

- 10 nA to 10 mA

DFB WDM Laser Sources

See Pages 1170 - 1171

- C- and L- Band Precision Sources

Each system is assembled
and tested to your specific
configuration. Contact our
technical support team for expert
advice on optimum solutions for
your needs.

PRO8 Modular Controller Systems (Page 2 of 2)

All PRO8 series controllers are equipped with IEEE-488.2 and RS-232 interfaces. Each system is delivered with LabVIEW™ and LabWindows™/CVI drivers to support the individual modules, as well as their integration into a comprehensive test and measurement system.

Easy Operation

All modules are self-identifying and are operated via menu-driven softkeys; the analog values are set with a rotary knob on the front panel.

All values are displayed by a 4 x 20 character alphanumeric display. The functions of the softkeys change in accordance with the activated module. A key-operated power switch protects the PRO8000 series against unauthorized use.



PRO800 CHASSIS
Modules Sold Separately



PRO800 Benchtop Chassis

The smaller PRO800 is the benchtop version of the PRO8 system offering slots for two modules. It is menu driven, flexible, and supports a multitude of electrical and optical modules. The PRO800 is ideal for crowded lab environments and offers the same operating features as the larger eight-slot chassis PRO8000.

Additional Modules for the PRO8 Series:

- DWDM Laser Sources in the C- and L-Band
(See Pages 1170 - 1171)
- Optical Switch Modules
(See Pages 1174 - 1175)

ITEM #	PRO800	PRO8000	PRO8000-4
Slots (Maximum Number of Modules)	2	8	8
Maximum Output Current for All Modules	8 A	16 A	32 A
Maximum Power Consumption	220 VA	500 VA	800 VA
Display	Alphanumeric Display with 4 x 20 Characters		
Operation	Menu Driven		
Setting	Function Keys and Rotary Knob		
Protection Features	Key-Operated Power Switch		
TTL Modulation Frequency Range*	DC to 10 kHz		
TTL Duty Cycle*	Selectable		
TTL Modulation Input (Max 5 V)	BNC		
TTL Trigger Output (Max 5 V)	BNC		
IEEE-488.2 Interface	24-Pin IEEE Jack (Rear Panel)		
RS-232 Interface	9-Pin D-sub Plug (Rear Panel)		
Chassis Ground	4 mm Banana Jack (Rear Panel)		
Line Voltage	100 V, 115 V and 230 V AC \pm 10%		
Line Frequency	50 to 60 Hz		
Operating Temperature	0 to 40 °C		
Storage Temperature	-40 to 70 °C		
Relative Humidity	< 80% up to 31 °C, Decreasing to 50% @ 40 °C		
Dimensions (Chassis Only)	9.13" x 5.79" x 15.59" (232 mm x 147 mm x 396 mm)	17.68" x 5.79" x 15.59" (449 mm x 147 mm x 396 mm)	17.68" x 6.97" x 17.95" (449 mm x 177 mm x 456 mm)
Weight (Chassis Only)	<9 kg (<19.8 lbs)	<17 kg (<37.5 lbs)	<21 kg (<46.3 lbs)

*External synchronous current modulation for all cards in the chassis

ITEM #	\$	£	€	RMB	DESCRIPTION
PRO800	\$ 1,820.00	£ 1,310.40	€ 1,583.40	¥ 14,505.40	2-Slot Modular Benchtop Chassis, 8 A
PRO8000	\$ 2,480.00	£ 1,785.60	€ 2,157.60	¥ 19,765.60	8-Slot Modular Rack Chassis, 16 A
PRO8000-4	\$ 3,350.00	£ 2,412.00	€ 2,914.50	¥ 26,699.50	8-Slot High-Power Modular Rack Chassis, 32 A
PRO8000-R32	\$ 66.00	£ 47.52	€ 57.42	¥ 526.02	19" Mounting Kit for PRO8000
PRO8000-R42	\$ 89.00	£ 64.08	€ 77.43	¥ 709.33	19" Mounting Kit for PRO8000-4
PRO8000-C	\$ 25.00	£ 18.00	€ 21.75	¥ 199.25	PRO800 / PRO8000 Front Cover Plate