PRO800 - June 2, 2026

Item # PRO800 was discontinued on June 2, 2026. For informational purposes, this is a copy of the website content at that time and is valid only for the stated product.

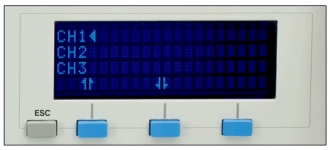
FIBER

Modular Test & Measurement Platforms

- Modular Platform for Laser Diode Testing and Operation
- Locally Operated Using Built-In Front Panel
- Fast IEEE-488 and RS232 Interfaces for Remote Control



PRO8000
Shown with 8 Installed Modules
and Rack Mounting Adapter



Easy-to-Read Display
No PC Required for Operation



PRO800
2-Slot Benchtop Enclosure,
Shown with PRO8000-C Covers
(Sold Separately)

Related Items

PRO8 Current & Temperature Control Modules



PRO8 LD Current Controller



PRO8 LD Temperature Controller



PRO8 DFB Laser Source



Overview

Features

- Universal, Modular Platform for Production and Quality Control
- Current and Temperature Controllers for Laser Diode Operation, Characterization, or Burn-In Applications
- Available Optical Modules Include WDM Laser Sources and Optical Switches
- Compact, 2-Slot Benchtop and Rack-Mountable 8-Slot Versions Available
- Remote Control via IEEE 488.2 and RS232
- Accessories Included with Chassis:
  - Region-Specific Power Cord
  - Manual

Thorlabs' PRO8 test and measurement platforms are designed to operate electrical and optical modules for telecom testing and other applications. They control a broad family of interchangeable modular devices (see Table 1.1) and can be operated independent of an external computer. Two different versions are available: 2-slot benchtop (PRO800), and 8-slot rack-mountable (PRO8000). The 8-slot chassis option is compatible with our 19" Rack Mounting System.

Table 1.1 PRO8 Series Modules[a]

Laser Diode Current Controllers (Up to 8 A)	
TEC Temperature Controllers (Up to 64 W)	
Combination Laser Diode Current (Up to 1 A) & TEC Temperature Controllers (Up to 16 W)	
DWDM DFB Laser Modules[b]	
Optical Switches	
Photocurrent Measurement Module	

a. Our PRO8 Series Chassis can accommodate multiple PRO8 Series Modules, allowing for a customized telecom solution.
b. Please contact Tech Support for availability of desired wavelength.

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

To meet individual experimental needs, PRO8 chassis are made to order and custom configured with individually selected modules. Prior to placing an order, please contact Tech Support so that we can assist with determining your custom configuration. Table 1.1 lists all available modules. Customers may also order the chassis and modules separately.

Different cables are required to connect the PRO8 modules to a Thorlabs Laser Diode Mount. The cables, which have a length of 1.5 m, must be ordered separately. Pin diagrams are shown near the bottom of this page.

Specs

Item #	PRO800	PRO8000
Number of Slots	2	8
Mains Switch	Key-operated	
Remote Control	Via IEEE488.2 and RS232C	
Mains Supply	100 V, 115 V, 230 V (±10%) Fixed (50 to 60 Hz)	
Maximum Power Consumption	220 VA	500 VA
Supply Mains Overvoltage	Category II	
Operating Temperature*	0 - 40 °C	
Storage Temperature	-40 to +70 °C	
Relative Humidity	Max. 80% up to 31 °C, Decreasing to 50% at 40 °C	
Pollution Degree (Indoor Use Only)	2	
Operation Altitude	< 2000 m	
Maximum Output Current per Slot	4 A	4 A
Maximum Output Current for all Slots	8 A	16 A
Warm-Up Time for Maximum Accuracy	10 min	
Dimensions (W × H × D)	232 mm × 147 mm × 396 mm (3 U)	449 mm × 147 mm × 396 mm (3 U)
Maximum Weight	< 9 kg	< 17 kg
Display and Operating Elements		
Display	4 × 20 Characters Alphanumeric Vacuum-Fluorescence-Display	
User Interface	Interactive Menus	
Keypad	7 Micro-Switch Keys	
Main Tuning Knob	Rotation Encoder	
Acoustic Messages	Internal Beeper: Short Tone As Confirmation, Long Tone As Warning	
Connectors on the Rear Panel		
Ground	4 mm Banana Jack	
Line	3-Pin IEC 320 with Fuse	
Remote Control	IEEE488 (24-Pin) Jack or RS-232C (9-Pin) D-Sub Jack	
Auxiliary Jack	9-Pin D-Sub (for Extensions)	
Trig In (5 V Max, TTL)	BNC	

Item #	PRO800	PRO8000
Trig Out (5 V Max, TTL)	BNC	

*Non-condensing
(All technical data are valid at 23 ± 5 °C and 45 ±15% relative humidity)

Software

Software for the PRO800/PRO8000 Series

The available software can be downloaded by clicking on the Software link, and is organized into the following categories:

1. **Drivers:** Instrument drivers to directly operate the device via external software to extend or adapt the functionality to user specific requirements.
2. **Utility Module:** Thorlabs Instrument Communicator 2 for instrument communication functionality.

Software

Version 2.5.3

Click the button below to visit the software page.

Software Page

PRO800 System with 2-Slot Benchtop Chassis



PRO800
Covers Sold Separately

- Compact, 2-Slot, Benchtop Chassis
- Ideal for Research Applications
- Compatible with Various Temperature and Current Controllers and Optical Switches
- Dimensions (W x H x D): 232 mm x 147 mm x 396 mm
  (3 U Height)

The PRO800 Chassis is perfect for the lab environment and can accommodate up to two modules. This made-to-order chassis can be custom configured with up to two modules that best meet individual experimental needs prior to purchase (see Figure G1.1). The chassis can also be ordered empty, without any pre-installed modules. The empty slots of the PRO800 can be covered using PRO8000-C front cover plates (sold separately below).

Key Specifications	
Number of Slots	2
Max Power Consumption	220 VA
Max Output Current Per Slot	4 A
Max Output Current for All Slots	8 A



Figure G1.1 PRO800 Chassis with ITC8022 LD and TEC Controller and PDA8000-2 Amplifier

Universal (1 Item) Items Ship from Newton, NJ

Item		Docs	Available	Price	Qty
PRO800	2-Slot Modular Benchtop Chassis, 8 A Total Output Current			$2,379.44	1

PRO8000 System with 8-Slot Chassis



PRO8000
Covers Sold Separately

- 8 Slot Rack-Mountable Chassis
- Ideal for Large Testing and Manufacturing Environments
- Compatible with Various Temperature and Current Controllers and Optical Switches
- Dimensions (W x H x D): 449 mm x 147 mm x 400 mm
  (3 U Height)

Key Specifications	
Number of Slots	8
Max Power Consumption	500 VA
Max Output Current Per Slot	4 A
Max Output Current for All Slots	16 A



Figure G2.1 PRO8000 Chassis with Modules and PRO8000-R32 Rack Mounting Handles

The PRO8000 Chassis can accept up to 8 modules and is ideally suited for the needs of large test setups. This made-to-order chassis can be custom configured with up to eight modules that best meet individual experimental needs prior to purchase (see Figure G2.1). The chassis can also be ordered empty, without any pre-installed modules. The empty slots of the PRO8000 can be covered using PRO8000-C front cover plates (sold separately below).

As shown inFigure G2.1, our PRO8000-R32 Rack-Mounting Handles (sold separately) can be attached to the chassis, allowing it to be integrated into our 19" Rack Mounting System.

Universal (1 Item) Items Ship from Newton, NJ

Item		Docs	Available	Price	Qty
PRO8000	8-Slot Modular Rack Chassis, 16 A Total Output Current			$3,237.43	1

PRO8 Accessories



The PRO8000-R32 Rack Mounting Kit includes a pair of handles that allows the PRO8000 chassis to be mounted in a 19" rack system. To install the handles, the PRO8000 housing must be removed and reassembled using the existing housing screws to secure the handles to the unit. This process can be time consuming, but if the PRO8000-R32 handles are ordered with the PRO8000 chassis, the device will be delivered with the rack mountings fitted. The through holes can then be used to mount the chassis in a rack system. Please note: although the PRO800 is compatible with the PRO8000-R32 Mounting Kit, it is too narrow to fit in a 19" rack system.

The PRO8000-C Front Cover Plate is used to protect empty slots in the PRO800 and PRO8000 chassis. To install, use the two Phillips head screws that previously attached the module to the chassis to secure the front plate to the chassis, just as if it were a module. Figure G3.1 shows the PRO800 chassis with one PRO8000-C front plate.



Figure G3.1 PRO800 Chassis with PRO8000-C Front Cover Plate and One Module

Universal (2 Items) Items Ship from Newton, NJ

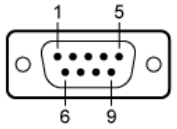
Item		Docs	Available	Price	Qty
PRO8000-R32	19 in. Rack Mounting Kit for PRO8000			$85.80	1
PRO8000-C	Front Cover Plate for PRO8 Series Chassis			$32.40	1

Laser Diode Current Controller Connection Cable



CAB400

The CAB400 cable is used to connect our Laser Diode Current Controller modules to our Laser Diode Mounts.



Male 9 Pin Connector

CAB400 (9 Pin Male) Cable	
Pin #	**Description**
1	Interlock and Status LASER ON/OFF
2	Photodiode[a]
3	Laser Diode Ground
4	Photodiode[b]
5	Ground for Pin 1
6	Voltage Measurement Laser Diode Cathode[c]
7	Laser Diode Cathode (with Polarity Anode Grounded - AG)
8	Laser Diode Anode (with Polarity Cathode Grounded - CG)
9	Voltage Measurement Laser Diode Anode[c]

a. LDC200C Series, Photodiode Cathode PRO8 Series: Photodiode Ground, Cathode or Anode (Configurable)
b. LDC200C Series, Photodiode Anode PRO8 Series: Photodiode Input, Anode or Cathode (Configurable)
c. LDC200C Series: N.C.

Universal (1 Item) Items Ship from Newton, NJ

Item		Docs	Available	Price	Qty
CAB400	Cable; Current Controller with 9-Pin D-Sub Connector, 1.5 m		Today	$88.34	1

Temperature Controller Connection Cable



CAB420-15

The CAB420-15 cable is used to connect our TEC Temperature Controller modules to our Laser Diode Mounts. The pin descriptions shown in Tables G5.1 and G5.2 denote the typical pin assignments used by Thorlabs' family of laser diode temperature controllers and laser diode mounts. Table G5.3 gives the physical pin connections between the 15-pin and 9-pin sides of the CAB420-15 cable.

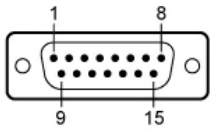


Table G5.1 Male 15-Pin Connector

1	Status LED (+) (for TEC On/Off Indication)[a]
2	TEC Voltage Measurement[b]
3	Thermistor (-), Ground
4	Thermistor (+)
5	TEC (+)
6	TEC (+)
7	TEC (+)
8	LM 135/335 (-), Ground[a]
9	TEC Voltage Measurement[b]
10	Transducer AD 590/592 (-), LM 135/335 (+)
11	Transducer AD 590/592 (+), LM 135/335 (+)
12	No Connection
13	TEC (-), Status LED (-)
14	TEC (-), Status LED (-)
15	TEC (-), Status LED (-)

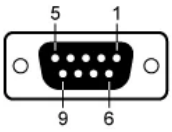


Table G5.2 Female 9-Pin Connector

1	Status LED (+) (for TEC On/Off Indication)[a]
2	Thermistor (+)
3	Thermistor (-), Ground
4	TEC (+)
5	TEC (-), Status LED (-)
6	No Connection
7	Transducer AD 590/592 (-), LM 135/335 (+)
8	LM 135/335 (-), Ground[a]
9	Transducer AD 590/592 (+), LM 135/335 (+)

a. TTC001: No Connection

a. TTC001: No Connection
b. TED200C Series and TTC001: No Connection

Table G5.3 Pin Connections

15-Pin Side	9-Pin Side
1	1
2	4
3	3
4	2
5	4
6	4
7	No Connection
8	8
9	5
10	7
11	9
12	No Connection
13	5
14	5
15	No Connection

Universal (1 Item) Items Ship from Newton, NJ

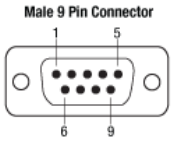
Item		Docs	Available	Price	Qty
CAB420-15	Temperature Controller Cable with 15-Pin D-Sub Connector, 1.5 m		Today	$93.43	1

Laser Diode Current Controller and Temperature Controller Connection Cable



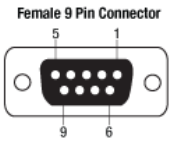
CAB430

The CAB430 cable is used to connect our Combination Laser Diode Current and TEC Temperature Controller modules to our Laser Diode Mounts.



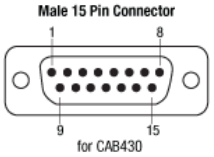
Expand for More Details

1	Interlock and Status LASER ON/OFF
2	Photodiode
3	Laser Diode Ground
4	Photodiode
5	Ground for Pin 1
6	Voltage Measurement Laser Diode Cathode
7	Laser Diode Cathode (with Polarity Anode Grounded - AG)
8	Laser Diode Anode (with Polarity Cathode Grounded - CG)
9	Voltage Measurement Laser Diode Anode



Expand for More Details

1	Status LED (+) (for TEC ON/OFF indication), CAB430: N.C.
2	Thermistor (+)
3	Thermistor (-), Ground
4	TEC (+)
5	TEC (-), Status LED (-)
6	N.C.
7	Transducer AD 590/592 (-), LM 135/335 (+)
8	N.C.
9	Transducer AD 590/592 (+), LM 135/335 (+)



Expand for More Details

1	Interlock and Status LASER ON/OFF
2	Photodiode
3	Laser Diode Ground
4	Photodiode
5	Ground for Pin 1
6	Transducer AD 590/592 (+), LM 135/335 (+)
7	TEC (+)
8	TEC (-)
9	Voltage Measurement Laser Diode Cathode
10	Laser Diode Cathode (with Polarity Anode Grounded - AG)
11	Laser Diode Anode (with Polarity Cathode Grounded - CG)
12	Voltage Measurement Laser Diode Anode
13	Transducer AD 590/592 (-), LM 135/335 (+)
14	Thermistor (-), Ground
15	Thermistor (+)

Universal (1 Item) Items Ship from Newton, NJ

Item		Docs	Available	Price	Qty
CAB430	Cable for a LD and TEC Controller with 15-Pin D-Sub Connector to a Laser Diode Mount, 1.5 m		Today	$161.43	1

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