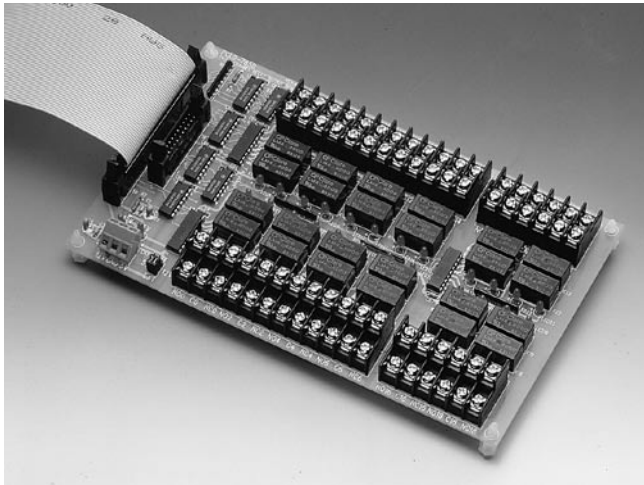


PCLD-785 PCLD-785B PCLD-885

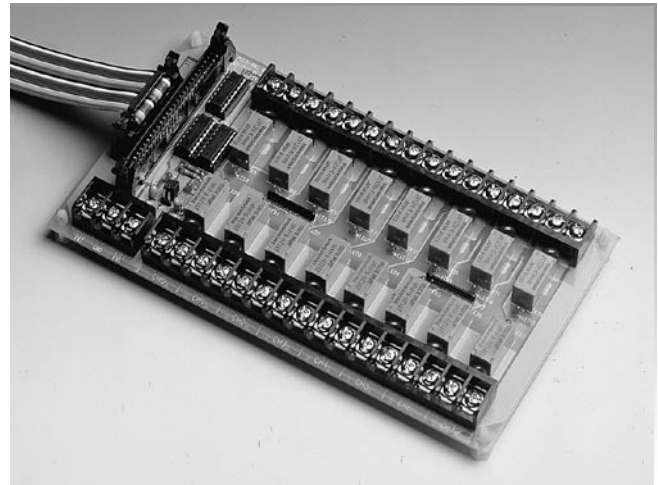
16-channel Relay Output Board

24-channel Relay Output Board

16-channel Power Relay Output Board



PCLD-785/785B



PCLD-885



Features

- Compatible with PC-LabCard™ products with 20-pin digital output connector and 50-pin Opto-22 digital output connector (PCLD-785B only)
- Automatic selection of control logic (PCLD-785B only): Negative logic for the Opto-22 connector Positive logic for the 20-pin flat cable connector
- Relays: PCLD-785: 16 SPDT, PCLD-785B: 16 or 24 SPDT
- On-board relay driver circuits
- Screw terminals for easy output wiring
- LED status indicators

Specifications

Relay

- Channels**

PCLD-785:	16 (CN1, 20-pin conn.)
PCLD-785B:	16 (CN1, 20-pin conn.) 24 (CN2, 50-pin conn.)
- Contact Ratings**

120 V _{AC} @ 0.5 A, 30 V _{DC} @ 1 A

- Contact Resistance**

< 100 mΩ

- Control Logic**

20-pin flat cable conn.: Input TTL high (+5 V) = Relay on
50-pin Opto-22 conn.: Input TTL low (0 V) = Relay on
5 ms max.
- Operation Time**

100 mΩ

- Insulation Resistance**

AC: 5 x 10 ⁵ @ 110 V/0.3 A
DC: 5 x 10 ⁵ @ 24 V/1.25 A
- Life Expectancy**

SPDT (Single-Pole Double-Throw) Form C
5 ms max.
- Relay Type**
- Release Time**

General

- Connectors**

PCLD-785:	Input: 20-pin flat cable
	Output: Screw clamp terminal block (PCLD-785)
PCLD-785B:	Input: 50-pin Opto-22, 20-pin flat cable
	Output: Barrier strip terminal block (PCLD-785B)
- Dimensions (LxW)**

PCLD-785:	114 x 220 mm (4.5" x 8.7")
PCLD-785B:	132 x 220 mm (5.2" x 8.7")
- Power Consumption**

+5 V @ < 100 mA; +12 V @ 33 mA for each relay

- Power Input**

20-pin connector:
+5 V _{DC} : Jumper select either PC bus or external supply
+12 V _{DC} : Jumper select either PC bus or external supply
50-pin connector: external 12 V supply

Ordering Information

- PCLD-785B**

24-channel Relay Output Board, user's manual, 1m
20-pin flat cable assembly (P/N: PCL-10120-1) and
1.2m 50-pin flat cable assembly (P/N: PCL-10150-1.2)
- PCLD-785**

16-channel Relay Output Board, user's manual, 1m
20-pin flat cable assembly (P/N: PCL-10120-1)
20-pin flat cable assembly, 1m
20-pin flat cable assembly, 2m
50-pin flat cable, 1.2m (connects the PCL-722 or 724 to the PCLD-885, 782B or 785B)
- PCL-10120-1**
- PCL-10120-2**
- PCL-10150-1.2**

Features

- Accepts 20-pin or 50-pin (Opto-22 compatible) connectors
- 16 single-pole single-throw (SPST) relays
- High-power relay handles up to 5 A @ 250 V_{AC}
- Onboard varistors protect all relay contact points
- Industrial screw terminals for ease of wiring
- LED On/Off status indication for each relay
- +5 V/+12 V power/status LED indicator

Specifications

Relay

- Breakdown Voltage**

750 V _{AC} for 1 minute, between open contacts
2500 V _{AC} for 1 minute, between coil and contacts
- Contact Rating**

AC: 250 V @ 5 A
DC: 30 V @ 5 A
- Contact Resistance**

30 mΩ max.

- Insulation Resistance**

1000 mΩ @ 500 V _{DC}

- Life Expectancy**

>100,000 cycles at rated load

- Relay on Time**

6 ms max.

- Relay off Time**

3 ms max.

- Relay Type**

SPST (Form A), normally open

Varistor

- Clamping Voltage**

760 V (10 A)

- Max. Peak Current**

1200 A for 8 msec.

- Max. Applied Voltage**

300 V _{RMS} AC continuous

- Varistor Voltage**

470 V (current = 1 mA)

General

- Power Consumption**

12 V @ 22 mA for each relay,
352 mA if all relays energized; 5 V @ 200 mA max.
- Connectors**

Input:	20-pin flat cable or 50-pin Opto-22 compatible
Output:	Barrier strip screw terminal
- Dimensions (LxW)**

205 x 114 mm (8" x 4.5")

- Operating Temperature**

0 ~ 60° C (32 ~ 140° F)

Ordering Information

- PCLD-885**

16-channel Power Relay Output Board, one 1m 20-pin
flat cable assembly (P/N: PCL-10120-1) and a 1.2m
50-pin flat cable assembly (P/N: PCL-10150-1.2)