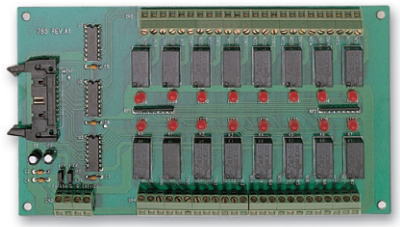
ACLD-9185-01

Terminal Board with 16-CH Relay Outputs



Features

- **16-CH single-pole, double-throw (SPDT form C) relay outputs**
- **For use with 20-pin digital input connector of NuDAQ cards**
- **Maximum switching voltage up to 60 VDC/120 VAC**
- **Maximum switching current up to 1 ADC/AC**
- **Onboard relay driver circuitry**
- **LED indicators for relay status**
- **Screw terminals for easy field wiring**

Specifications

- Relay Output
  - Number of Channels: 16
  - Relay Type: SPDT (Form C)
  - Isolation Voltage: 1500 VRMS
  - Contact Rating
    - AC: 120 V @ 0.5 A
    - DC: 24 V @ 1 A
  - Breakdown Voltage: 1000 VRMS
  - Contact Resistance: 100 mΩ
  - Relay ON/OFF time
    - Operate Time: 6 ms
    - Release Time: 3 ms
  - LED Indicators for Relay Status: one per channel
  - Expected Life:
    - > 5 x 10^5 operations @ 1 A, 24 VDC
    - > 2 x 10^5 operations @ 0.5 A, 120 VAC
- I/O Connector: 20-pin ribbon male
- Operating Temperature: 0°C to 60°C (32°F to 140°F)
- Storage Temperature: -20°C to 80°C (-4°F to 176°F)
- Relative Humidity: 5% to 95%, non-condensing
- Power Consumption:

+5 V	+12 V
200 mA maximum	528 mA maximum

- Dimensions: 205 mm x 114 mm (7.99" x 4.44")

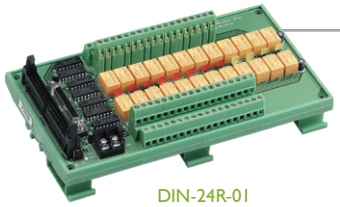
Ordering Information

- **ACLD-9185-01**
  96-CH isolated DO terminal board with Terminal Board with 16-CH Relay Outputs
- **Accessory**
  - Cabling
    ACL-102100-1: 100-p in SCSI-II cable, 1 M

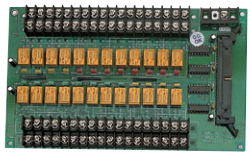
Contact your sales representative for cable length options.

DIN-24R-01, TB-24R-01

Terminal Boards with 24-CH Relay Outputs



DIN-24R-01



TB-24R-01

Introduction

The DIN-24R-01 and TB-24R-01 relay output boards are designed for industrial control applications. It contains 24 electro-mechanical SPDT relays that can be driven by the 24-Bit digital output ports of the PCI-7224, PCI-7248, PCI-7296, ACL-7112, ACL-7124, PET-48DIO, and ND-6058.

Each relay's switching capacity is 60 W, 125 VAC The normally closed, and common contacts for each relay are made available for maximum flexibility.

Features

- **24-CH single-pole, double-throw (SPDT form C) relay outputs**
- **50-pin Opto-22 compatible connector**
- **Maximum switching voltage 220 VDC/250 VAC**
- **Maximum switching current up to 2 ADC/AC**
- **LED indicator for relay status**
- **Onboard relay driver circuitry**
- **Screw terminals for easy filed wiring**
- **DIN socket available on DIN-24R-01**
- **50-pin SCSI-type connector available on DIN-24R-01 to interface with ND-6058**

Specifications

- Relay Output
  - Number of channels: 24
  - Relay Type: SPDT (Form C)
  - Contact Rating
    - AC: 125 V @ 0.6 A
    - DC: 30 V @ 2 A
  - Breakdown Voltage: 1500 VRMS
  - Contact Resistance: 50 mΩ
  - Relay ON/OFF Time
    - Operate time: 3 ms
    - Release time: 3 ms
  - LED Indicators for Relay Status: per channel
  - Expected Life: 5 x 105 operations @ 2 A, 30 VDC
  - External Coil Excitation Voltage:
    - 12 V nominal, 19.2 V maximum (TB-24R/12-01 & DIN-24R/12-01)
    - 24 V nominal, 38.5 V maximum (TB-24R/24-01 &DIN-24R/24-01)
- I/O Connector
  - 50-pin ribbon male
  - 50-pin SCSI-II female
- Operating Temperature: 0°C to 60°C (32°F to 140°F)
- Storage Temperature: -20°C to 80°C (-4°F to 176°F)
- Relative Humidity: 5% to 95%, non-condensing
- Power Consumption:

	+12 V	+24 V
TB-24R/12-01 DIN-24R/12-01	288 mA maximum	-
TB-24R/24-01 DIN-24R/24-01	-	44 mA maximum

- Dimensions
  - TB-24R-01: 220 mm (W) x 132 mm (L) x 15 mm (H) (8.58" x 5.14" x 0.58")
  - DIN-24R-01: 203 mm (W) x 120 mm (L) x 55 mm (H) (7.91" x 4.68" x 2.14")

Ordering Information

- **TB-24R/12-01**
  Terminal board with 24-CH relay outputs @ 12 V coil voltage
- **TB-24R/24-01**
  Terminal board with 24-CH relay outputs @ 24 V coil voltage
- **DIN-24R/12-01**
  Terminal board with 24-CH relay outputs @ 12 V coil voltage and DIN-rail mounting
- **DIN-24R/24-01**
  Terminal board with 24-CH relay outputs @ 24 V coil voltage and DIN-rail mounting
- **Accessory**
  - Cabling
    ACL-10150-: 50-pin flat cable

Contact your sales representative for cable length options.

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