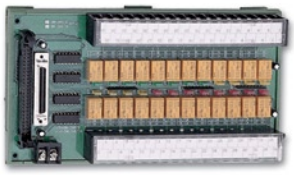
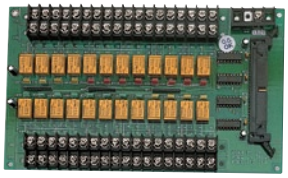
DIN-24R-01, TB-24R-01

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
- Storage Temperature: -20°C to +80°C
- 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 x 132 mm x 15 mm (W x L x H)
  - DIN-24R-01: 203 mm x 120 mm x 55 mm (W x L x H)

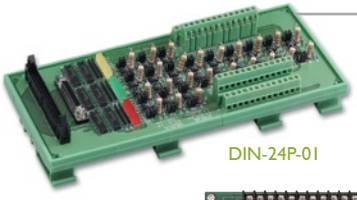
Ordering Information

- **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

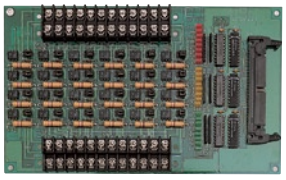
Contact your sales representative for cable length options.

DIN-24P-01, TB-24P-01

Terminal Boards with 24-CH Opto-Isolated Digital Inputs



DIN-24P-01



TB-24P-01

Introduction

The DIN-24P-01 and TB-24P-01 digital input terminal boards feature high-voltage optoisolation on all input channels. They provide 24 channels that are accessed through a single 50-pin connector that is standard on the NuDAQ digital I/O boards, including ACL-7122, ACL-7124, PET-48DIO, PCI-7224, PCI-7248, PCI-7296 and ND-6058. Each channel's input mode is configurable via jumper settings.

Features

- **24-CH opto-isolated digital inputs**
- **50-pin opto-22 compatible connector**
- **Non-polarity digital input range**
- **Isolated input voltage up to 24 V**
- **5000 VRMS optical isolation**
- **Jumper configurable for voltage input or dry-contact input mode**
- **LED indicator for input status**
- **Screw terminals for easy field wiring**
- **DIN socket is available on DIN-24P-01**
- **50-pin SCSI-type connector available on DIN-24P-01 to interface with ND-6058**

Specifications

- Input Modes
  - Voltage input
  - Dry contact input
- Isolated Digital Input
  - Number of channels: 24, maximum
  - Maximum input range: 24 V, non-polarity
  - Digital logic levels
    - 0 to 24 V, non-polarity
      - * Input high voltage: 5 V to 24 V
      - * Input low voltage: 0 to +1.5 V
  - Input resistance:1.2 kΩ @ 0.5 W
  - Isolation voltage: 5000 VRMS
- Dry Contact Input
  - Number of channels: 24
  - Internal pull-up voltage supply: +5 VDC
- LED Indicators for Input Status: one per channel
- I/O Connector
  - 50-pin ribbon male
  - 50-pin SCSI-II female
- Operating Temperature: 0°C to +60°C
- Storage Temperature: -20°C to +80°C
- Relative Humidity: 5% to 95%, non-condensing
- Power Requirement:

+5 V
40 mA maximum

- Dimensions
  - TB-24P-01: 220 mm x 132 mm x 23 mm (W x L x H)
  - DIN-24P-01: 259 mm x 121 mm x 55 mm (W x L x H)

Ordering Information

- **TB-24P/24-01**
  Terminal Board with 24-CH isolated digital inputs
- **DIN-24P-01**
  Terminal Board with 24-CH isolated digital inputs and DIN-rail mounting
- **Accessory**
  - Cabling
    ACL-10150: 50-pin flat cable

Contact your sales representative for cable length options.

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