

# PLC Trainer



## Model 5050

Representative



Technology Education Concepts  
[www.TECedu.com](http://www.TECedu.com) | 800-338-2238

The Nida Model 5050 Programmable Logic Controller Trainer is the ideal PLC trainer to enhance your industrial maintenance program. Designed around the Allen Bradley MicroLogix 1200, the Model 5050 trainer provides your student a complete PLC training package, from troubleshooting fundamental PLC circuits to programming advanced automated processes. The Model 5050 PLC Trainer comes standard with relay and TTL slots, an 8 LED level/process display, variable speed motor, and basic process control circuit cards.

Power, relay, TTL, and analog input/output connections allow the student to receive inputs and control outputs to various external devices. The Model 5050 PLC Trainer is designed with a computer interface module for programming the PLC using APS or RS Logix software and can be utilized as a stand-alone trainer or interfaced with the Nida PLC CAI software. In the classroom or in the factory, the Nida Model 5050 PLC Trainer is the logical choice to enhance your industrial technology training program.

# Nida Model 5050



## Features

- 1. Process Control Card** - provides students with basic Start/Stop, Status Indication, and Analog Control concepts and experimentation.
- 2. Input/Output Interface** - allows external connection to input and output devices for controlling external processes.
- 3. Process Selector** - built-in selector provides preprogrammed basic control functions.
- 4. Allen Bradley MicroLogix 1200** - includes the proven, reliable, and standard PLC used throughout industry.

- 5. Relay and TTL Slots** - incorporates two of the most popular slots used in industry applications.
- 6. Variable Speed Motor** - used to demonstrate fixed and variable motor processes.
- 7. 8 LED Level/Process Display** - provides a visual indication of levels, process steps, and digital states.
- 8. Fundamental Process Card** - allows students to observe, control, and troubleshoot a multitude of process outputs.

## Specifications

**Primary Power:** 110 VAC (0.6A max) or 220 VAC (0.3A max), 50/60 Hz switched controlled & primary fuse protection.

**DC Power Sources:** +5V, -12V, +12V, +24V selectable power supply.

**Input and Output:** BNC input and output, 9 & 25 pin serial ports, 12 input & 8 output relays, 16 TTL input channels, 2 analog inputs & 2 analog outputs.

**Operating Temperature:** 10 degrees to 40 degrees Celsius ambient.

**Dimensions:** 9"H x 18"D x 18"W  
(22.86cm H x 45.72cm D x 45.72cm W)

**Weight:** 22 lbs. (10kg)

**Construction:** Sheet metal covered by flat panel matte finish.

Nida Corporation

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Nida Corporation

Hardware Series



# NIDA SPECIFICATIONS



## NIDA MODEL 5050 CONSOLE – PROGRAMMABLE LOGIC CONTROLLER

### General Description

The Nida Model 5050 trainer uses the Allen Bradley MicroLogix 1200 PLC which includes a central processing unit with built-in 24 volt power supply, external communications capability, 12 input, and 8 output relays. In addition, the digital input module contains 16 input channels that are user selectable for voltage to support a variety of monitoring and controlling applications. Two user selectable analog inputs and outputs are provided in a single slot module. The expansion chassis includes Process Control and Process circuit cards. These two circuit cards simulate an actual factory temperature control process.



### Features

- Expansion capabilities through the use of plug-in circuit boards.
- Designed for individual learning with applications in group or self-paced environments.
- Unlimited instructional versatility.
- Supports automatic, remote, and multiple fault insertion.
- Curriculum provided in both hardcopy and computer assisted instruction.
- Chassis removable to permit designs for larger processes more specific to a particular industry.
- Fully automatic operation in CAI mode.
- Self-cleaning contacts.

### Specifications

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#### **Operating Temperature:**

10 degrees to 40 degrees Celsius ambient.

#### **Dimensions:**

18"W (45.72cm) 18"D (45.72cm) 9"H (22.86cm)

#### **Weight:**

22 lbs. (10kg)

#### **Construction:**

Sheet metal covered by flat panel matte finish.

Note: Winows7 or higher, RS Logix for Advanced PLC, Serial Port for trainer/computer communications.

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