Getting Started

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Introduction

The Purpose of this Manual

This manual will discribe the option modules that are available for the DL05 and DL06 micro PLC families. It will show you how to select and install an option module for your PLC.

Supplemental Manuals

You will either need a copy of the *DL05 User Manual* (D0–USER–M) or the *DL06 User Manual* (D0–06USER–M) at hand when incorporating any one of the option modules in your PLC.

Technical Support

We realize that even though we strive to be the best, we may have arranged our information in such a way you cannot find what you are looking for. First, check these resources for help in locating the information:
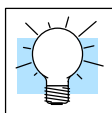
- **Table of Contents** – chapter and section listing of contents, in the front of this manual.
- **Appendices** – reference material for key topics, near the end of this manual.

You can also check our online resources for the latest product support information:

- **Internet** – the address of our Web site is:
  http://www.automationdirect.com

If you still need assistance, please call us at 770–844–4200. Our technical support group is glad to work with you in answering your questions. They are available Monday through Friday from 9:00 A.M. to 6:00 P.M. Eastern Standard Time. If you have a comment or question about any of our products, services, or manuals, please fill out and return the 'Suggestions' card that was shipped with this manual.
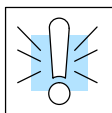
Conventions Used

When you see the "light bulb" icon in the left-hand margin, the paragraph to its immediate right will give you a **special tip**.
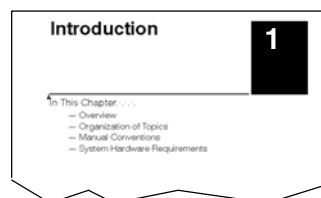The word **TIP:** in boldface will mark the beginning of the text.

When you see the "notepad" icon in the left-hand margin, the paragraph to its immediate right will be a **special note**.
The word **NOTE:** in boldface will mark the beginning of the text.

When you see the "exclamation mark" icon in the left-hand margin, the paragraph to its immediate right will be a **warning**. This information could prevent injury, loss of property, or even death (in extreme cases).
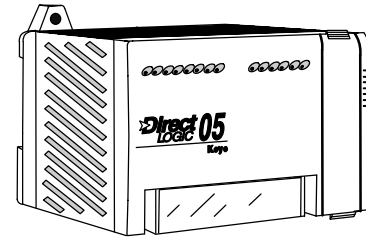The word **WARNING:** in boldface will mark the beginning of the text.

Key Topics for Each Chapter

The beginning of each chapter will list the key topics that can be found in that chapter.
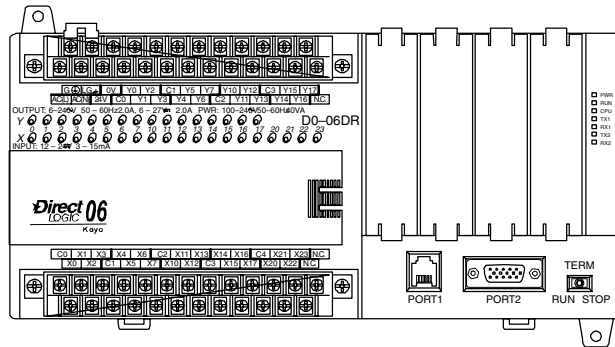
Selecting the Proper Module

The DL05 Micro PLC only has one option slot to install an option module. The proper selection of a module is dependent on the control application.

The DL06 Micro PLC has four option slots. The option modules can also be added according to the control application.

Module choices   There are fifteen option modules available. The specifications and wiring diagrams for the nine discrete I/O modules can be found in the next chapter. A full description of five analog modules and one memory module can be found in their respective chapters in this manual. The D0–DEVNETS, is described in the manual, ***D0–DEVNETS–M***. The following table lists the modules available.
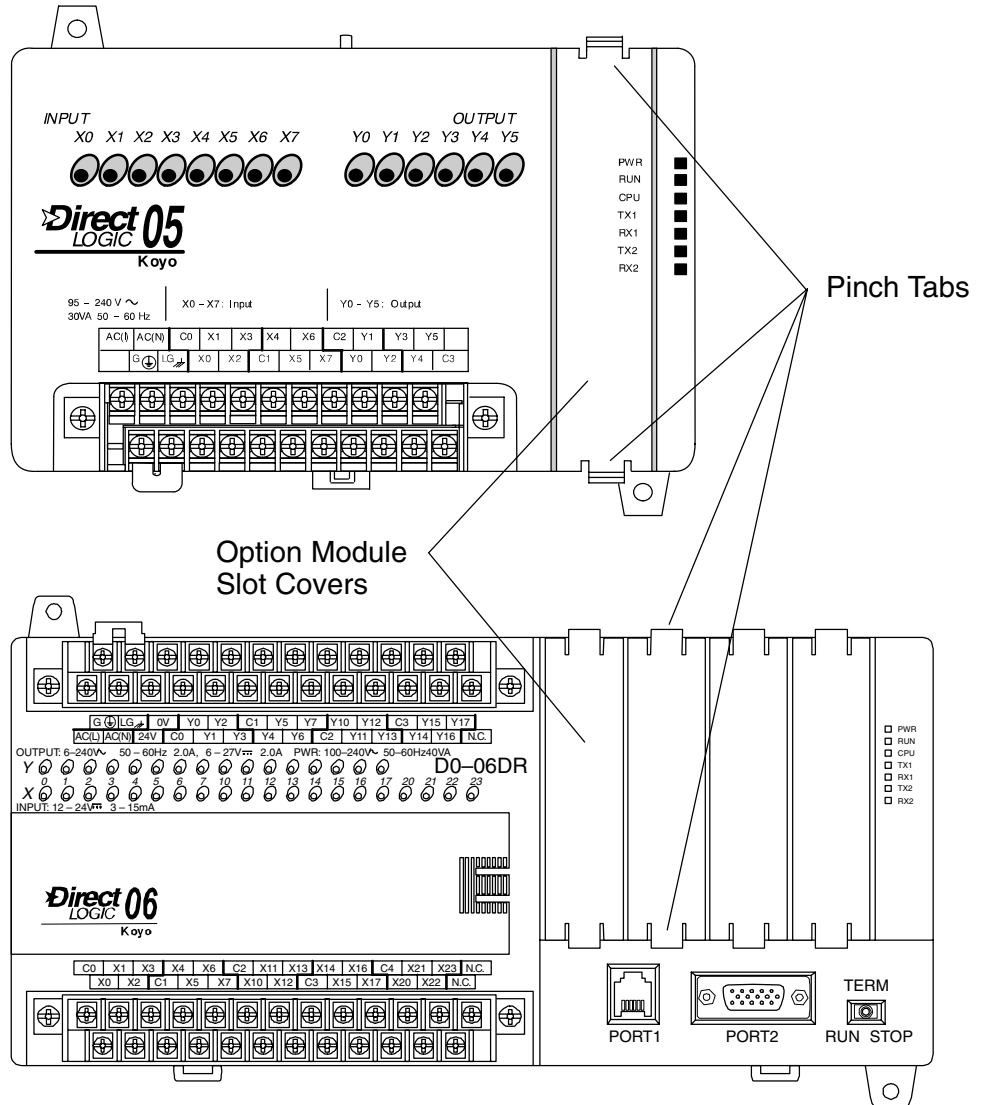
Part Number	Description
D0–10ND3	10 point DC Input
D0–16ND3	16 point DC Input
D0–10TD1	10 point DC Output (sinking)
D0–16TD1	16 point DC Output (sinking)
D0–10TD2	10 point DC Output (sourcing)
D0–16TD2	16 point DC Output (sourcing)
D0–07CDR	4 point DC Input, 3 point Relay Output
D0–08TR	8 point Relay Output
D0–08CDD1	4 point DC Input, 4 point DC Output (sinking)
F0–04AD–1	4–Channel Analog Input, Current
F0–4AD2DA–1	4–Channel Input/2–Channel Output Analog Combination, Current
F0–2AD2DA–2	2–Channel Input/2–Channel Output Analog Combination, Voltage
F0–4AD2DA–2	4–Channel Input/2–Channel Output Analog Combination, Voltage
D0–01MC	Memory Cartridge/Real Time Clock (DL05 only)
D0–DEVNETS	DeviceNet Slave

Getting Started

Install the Option Module

Before installing the option module in the DL05 option slot or the DL06 option slots set the necessary jumpers and/or dip switches on the module. Refer to the chapter(s) that pertains to the module(s) being installed.
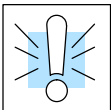
Remove the Slot Cover

The first step in installing the option module is to remove the protective option slot cover. Remove the cover by squeezing the pinch tabs and lifting the cover off.

Pinch Tabs

Option Module Slot Covers

Insert the Module

Now, insert the module into the open slot. Locate the module so the printed information is oriented in the same direction as the markings on the PLC. Be careful to align the female connector on the printed circuit board of the module with the male connector on the PLC mother board. Press the module into the slot until the front of the module is flush with the front of the PLC. Install the remaining modules in the DL06. Once the modules are in place the PLC is ready to be programmed.

WARNING: Power to the PLCs must be disconnected before inserting or removing a module. Failure to disconnect power could result in serious damage to a module, the PLC or both.