Introduction

In This Chapter...

Introduction

The Purpose of this Manual

Thank you for purchasing our DL205 family of products. This manual is written for the user of non-traditional CPU-slot controllers or I/O controllers who are also using AutomationDirect DL205 I/O products. This manual will show the user how to install and wire the equipment. It provides specifications for input and output modules. It also helps to understand how to interface these products to other devices in a control system.

Where to Begin

If you already understand PLCs please read Chapter 2, "Installation, Wiring, and Specifications", and proceed on to other chapters as needed. Keep this manual handy for reference when you have questions. If you are a new DL205 customer, we suggest you read this manual completely to understand the wide variety of features in the DL205 family of products. We believe you will be pleasantly surprised with how much you can accomplish with our products.

Supplemental Manuals

If you have purchased operator interfaces or ***Direct***SOFT, you will need to supplement this manual with the manuals that are written for these products.

Technical Support

We strive to make our manuals the best in the industry. We rely on your feedback to let us know if we are reaching our goal. If you cannot find the solution to your particular application, or, if for any reason you need technical assistance, please call us at:

770–844–4200

Our technical support group will work with you to answer your questions. They are available Monday through Friday from 9:00 A.M. to 6:00 P.M. Eastern Time. We also encourage you to visit our web site where you can find technical and non-technical information about our products and our company.

http://www.automationdirect.com

If you have a comment, question or suggestion about any of our products, services, or manuals, please fill out and return the 'Suggestions' card that was included with this manual.

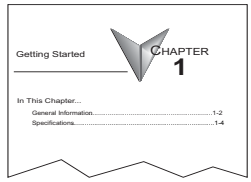
Conventions Used

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.


Getting Started

CHAPTER 1

In This Chapter...

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CPU-Slot Controllers

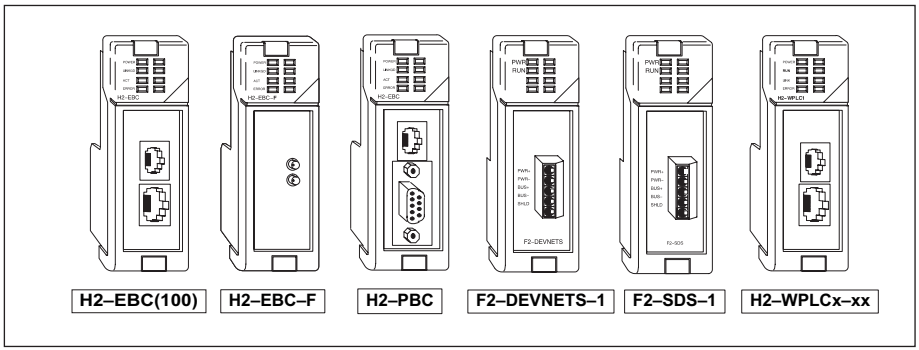
There are currently six “base controllers” or “I/O controllers available for the DL205 hardware. Five of these are actually slave controllers and one is a stand-alone controller. These controllers allow the use of industry proven DL205 I/O for general purpose distributed applications.

The controller modules are plugged into the CPU slot of any size DL205 base. The slave controllers must be connected to a network master controller module or to a PC running PC-based control, HMI or SCADA software.

The four controllers currently available are:

- Ethernet Base Controller Module
  - H2-EBC(100)(-F)
- Profibus Slave Base Controller Module
  - H2-PBC
- DeviceNet ™ Slave Module
  - F2-DEVNETS-1
- Smart Distributed System ™ Slave Module
  - F2-SDS-1
- WinPLC
  - H2-WPLCx-xx

The WinPLC uses Windows CE, a real-time operating system combined with the advantages of open standard software such as OPC, ActiveX and other Microsoft communications tools. The WinPLC only supports certain DL205 modules (consult the WinPLC User Manual).



DL205 System I/O Components

Bases

Four base sizes are available: 3 slot, 4 slot, 6 slot and 9 slot. One slot is for the DL205 Controller/Slave module, the remaining slots are for I/O modules. All bases include a built-in power supply.

I/O Configuration

The number of I/O points that can be supported is CPU-slot controller dependent.

I/O Modules

The DL205 has some of the most powerful modules in the industry. A complete range of discrete modules which support 24VDC, 110/220 VAC and up to 10A relay outputs are offered. The analog modules provide 12 and 16 bit resolution and several selections of input and output signal ranges (including bipolar).

The F2-SDS-1 and F2-DEVNETS-1 do not support specialty modules. Specialty module H2-CTRIO is supported by the other slave controllers and the H2-WPLCx-xx controller.