Introduction

The Purpose of this Supplementary Manual

With this short version manual, you can learn enough of the basics to get started without having to read the larger primary manual that covers all of the details of *Direct*SOFT™. If you have received this with your *Direct*SOFT™ demo disk, it will provide you with a sampling of how easy *Direct*SOFT™ is to use. For those who have purchased the full version of *Direct*SOFT™, exercise caution: **This is not intended to replace reading the Users Manual (DA-DSOFT-M). This is intended only as a supplement. This is only a quick start!**

Make Backup Copies of Your Diskettes

If you purchased the full *Direct*SOFT™ package, you should have received in your software packet three 3.5" diskettes. **We strongly recommend that you make backup copies of these diskettes before you take a chance the original disks become accidentally overwritten or inoperative for some reason.** Read your computer documentation if you do not know how to make backup copies of diskettes.
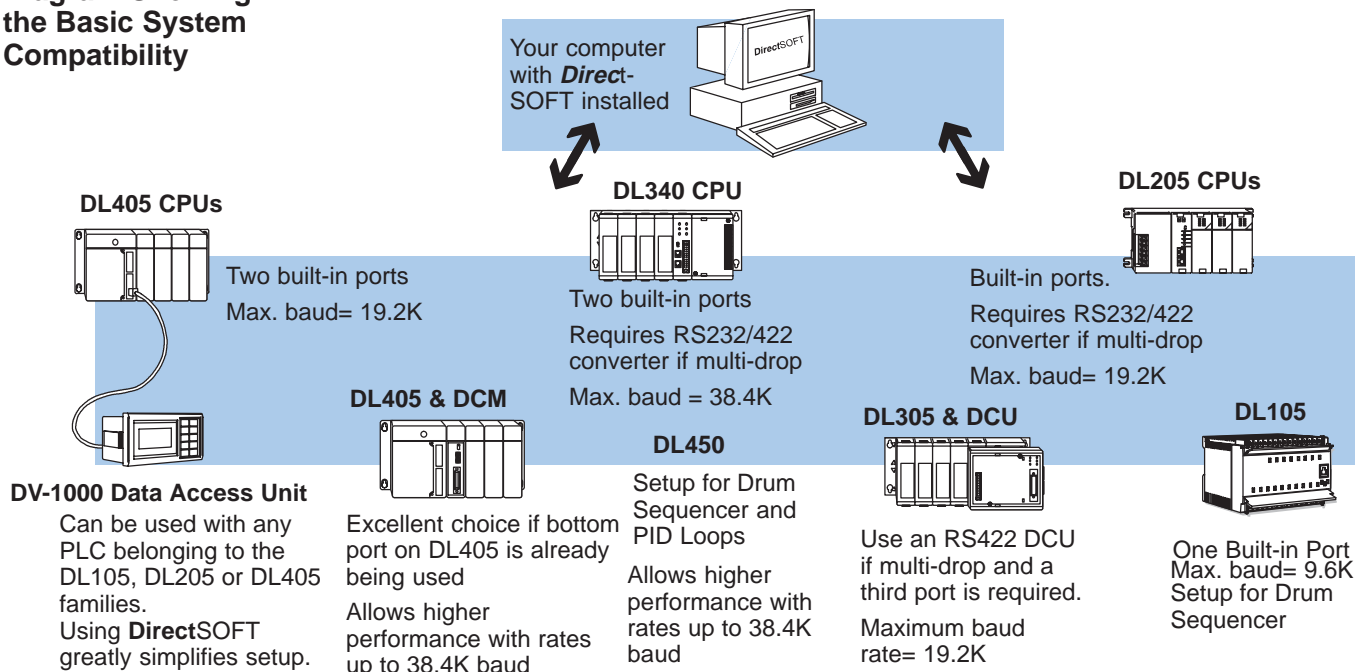
Who Can and Should Use *Direct*SOFT?

If you have a PLC belonging to the *Direct*LOGIC™ CPU family, you can use *Direct*SOFT™ to create your ladder logic programs. The four families of PLCs (DL105, DL205, DL305 and DL405) that currently exist under this description are shown below. We have included some other useful and related information. *Direct*SOFT™ has added the following functionality;

- set up a DV1000 Data Access Unit
- tune PID loops for the D2–250, D3–350, and D4–450
- set up the parameters for Drum Sequencers in the DL105, D2–250, D3–350, and D4–450

*Direct*SOFT™ will also work with many *Direct*LOGIC™ compatible products (not shown in the diagram). If you fall into this category, however, the chart on the next page shows you a complete list of which products work with the software.

Diagram Showing the Basic System Compatibility

Your computer with *Direct*SOFT installed

DL405 CPUs

Two built-in ports
Max. baud= 19.2K

DL340 CPU

Two built-in ports
Requires RS232/422 converter if multi-drop
Max. baud = 38.4K

DL205 CPUs

Built-in ports.
Requires RS232/422 converter if multi-drop
Max. baud= 19.2K

DL405 & DCM

Excellent choice if bottom port on DL405 is already being used
Allows higher performance with rates up to 38.4K baud

DL450

Setup for Drum Sequencer and PID Loops
Allows higher performance with rates up to 38.4K baud

DL305 & DCU

Use an RS422 DCU if multi-drop and a third port is required.
Maximum baud rate= 19.2K

DL105

One Built-in Port
Max. baud= 9.6K
Setup for Drum Sequencer

DV-1000 Data Access Unit

Can be used with any PLC belonging to the DL105, DL205 or DL405 families.
Using **Direct**SOFT greatly simplifies setup.

PLC Compatibility If you are using our *Direct*LOGIC ™ products, then compatibility is not much of an issue. Make sure the package you choose supports the CPU you are using. Our software also supports many compatible products offered by previous vendors of the Koyo designed PLCs. If you are buying the software to program a compatible CPU, check the following table to make sure the CPU is supported.

Family	CPU	*Direct-*SOFT Programming PC–PGMSW	Family	CPU	*Direct-*SOFT Programming PC–PGMSW
DL105	DL130 (requires Rel. 2.0 or later)	✓	GE® Series 1	IC609SJR–xxx	✕
DL205	D2–230	✓	GE® Series 1	IC610CPU101	✕
	D2–240	✓		IC610CPU104	✕
	D2–250	✓		IC610CPU105*	✓
DL305	D3–330*, D3–330P*	✓		IC610CPU106*	✓
	D3–340	✓	TI305 ™ / SIMATIC® TI305 ™	315xx	✕
	D3–350	✓		325–07*, PPX:325–07*	✓
DL405	D4–430	✓		330–37*, PPX:330–37*	✓
	D4–440**	✓		325S–07* (or 325 with Stage Kit)	✓
	D4–450	✓		330S–37*, PPX:330S–37*	✓
				335–37, PPX:335–37	✓
			TI405 ™ / SIMATIC® TI405 ™	425–CPU, PPX:425–CPU **	✓
				N/A, PPX:430–CPU	✓
				435–CPU, PPX:435–CPU **	✓

✓ = Yes, it is available
✕ = No, it is not available
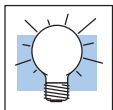* Requires RS232 Data Communications Unit (D3-232-DCU).
**—also DC versions

System Requirements Before you install the software, make sure your system is suitable to use with *Direct*SOFT. Your personal computer should meet (or exceed) the following:

- 486DX (or SX) CPU, 33Mhz clock speed
- Windows 3.1 or later, WIN 95, Windows NT 3.51 or later (no DOS, OS/2, MacIntosh, or UNIX versions.)
- 8MB RAM
- 10MB free hard disk space
- At least one unused serial port

NOTE on Laptops: *Direct*SOFT ™ is perfectly suitable for use with laptop computers as long as they meet the requirements shown above. However, there can be a few problem areas. One inconvenient problem is when your laptop only has one COM port and does not have a built-in mouse. In this case, you will have to use the COM port for the PLC communications instead of the mouse connection.

TIP: Any size monitor will work, but larger monitorsenhance the display capabilities of *Direct*SOFT ™. We also recommend a color monitor. *Direct*SOFT ™ uses color for certain conditions, such as program editing, error conditions, etc. It will work with monochrome monitors, but the results are improved with color monitors.