

# D4-440/430 Key Features

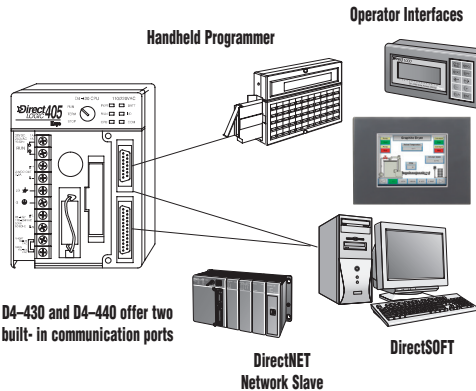
## DL440 CPU

D4-440 \$630.00  
D4-440DC-1 \$651.00



## DL430 CPU

D4-430 \$557.00



D4-430 and D4-440 offer two built-in communication ports

## D4-430 CPU

The D4-430 is the most economical CPU in the DL405 product family. If you are primarily looking at the DL405 because of I/O form factor or reasons that don't require tons of CPU horsepower, try the D4-430.

### Two built-in communication ports

The D4-430 also offers two communication ports. The top port can be used for a direct connection to a personal computer for programming, to our handheld programmer, to the DV-1000, or to operator interfaces and touch panels. The bottom port is a slave-only port and supports *DirectNET* protocol at speeds up to 19.2K.

### Built-in EEPROM memory

One advantage of the D4-430 is 3.5K of built-in EEPROM program memory. A memory cartridge is not required.

## D4-440 CPU

The D4-440 provides a subset of the D4-450/D4-454's capabilities. If you need fast boolean execution, good communications, and complex math or PID isn't required, this is the CPU for you.

### Instruction set

The D4-440 instruction set includes most of the capabilities of the D4-450/D4-454. The D4-440 does not support some of the more advanced instructions such as PID, floating point math, drum sequencers, trig. functions, lBoxes, etc.

### Two built-in communication ports

D4-440 offers two communication ports. The top port can be used for a direct connection to a personal computer for programming, to our handheld programmer, to our DV-1000, or to operator interfaces and touch panels. The bottom port is a slave-only port and supports our *DirectNET* or K-sequence protocol at speeds up to 19.2K baud.

### Range of power supplies

The D4-440 provides a wide range of power supply options:

- 110/220 VAC
- 24 VDC

## Memory cartridges

The table below shows the memory cartridges available for the D4-440 and D4-450. The D4-440 requires a memory cartridge for program storage. The D4-450 has 7.5K of built-in FLASH program memory. However, you can use a memory cartridge instead of the built-in memory if you need more program space. (The D4-430 has built-in program memory and cannot use a memory cartridge.)

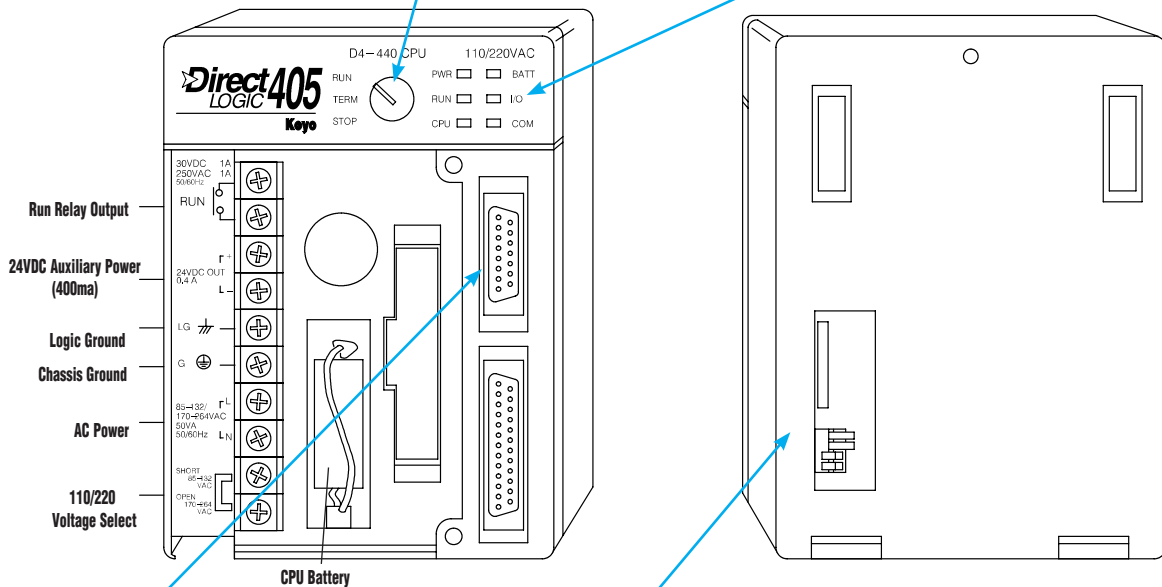
	D4-UV-2 \$146.00	D4-EE-2 \$153.00
<b>Program Storage Capacity</b>	15.5K	15.5K
<b>Cartridge Battery Type</b>	None	None
<b>Writing Cycle Life</b>	1,000	>10,000
<b>Write Inhibit</b>	N/A	Internal jumper
<b>Memory Clear Method</b>	Ultraviolet light	Electrical

# D4-440/430 Features

The following diagram shows the various hardware features found on the D4-440 CPU. The D4-430 looks the same, except that the memory cartridge slot can not be used.

CPU Keyswitch	
<b>RUN</b>	Forces CPU to RUN mode
<b>TERM</b>	Allows peripherals (HPP, DCM, DirectSOFT, etc.) to select operating and TEST modes.
<b>STOP</b>	Forces CPU to STOP mode

CPU Status Indicators					
<b>PWR</b>	ON	CPU power good	<b>BATT</b>	ON	CPU battery low
	OFF	CPU power failure		OFF	CPU battery good
<b>RUN</b>	ON	CPU in RUN mode	<b>I/O</b>	ON	I/O diagnostics error
	OFF	CPU in STOP mode		OFF	I/O diagnostics OK
<b>CPU</b>	ON	CPU diagnostic error	<b>COM</b>	ON	Communication error
	OFF	CPU diagnostics OK		OFF	Communication OK



Communication Ports	
<b>15 Pin</b>	Programming port, RS232, 9600 Baud, K-sequence protocol, connects to HPP, DirectSOFT, DV-1000 and some operator interfaces
<b>25 Pin</b>	Auxiliary port, R232 or RS422, Baud rate selectable via CPU dipswitch, K-sequence protocol, DirectNET protocol (slave only) connects to DirectNET, DirectSOFT, and other operator interfaces

CPU Dipswitch		
<b>SW1</b>	ON	CPU battery disabled
	OFF	CPU battery enabled
<b>SW2</b>	ON	Station address is 1
	OFF	Station address set by Directsoft or HPP

SW3	SW4	Baud
OFF	OFF	300
OFF	ON	1,200
ON	OFF	9,600
ON	ON	19,200

## D4-430/D4-440 communications ports pin-outs

