











# Power Requirements

### These charts help determine your power requirements

This section shows the amount of power supplied by each of the base power supplies and the amount of power consumed by each DL205 device. The Power Consumed charts list how much INTERNAL power from each power source is required for the DL205 devices. Use this information when calculating the power budget for your system.

In addition to the internal power sources, the DL205 bases offer a 24VDC auxiliary power supply with external power connections. This auxiliary power supply can power external devices.

#### Use ZIPLinks to reduce 5VDC base power requirements

If your application requires a lot of relay outputs, consider using the ZIPLink AC or DC relay output modules. These modules can switch high current (10A) loads without putting a load on your 5VDC base power budget.

For example, an 8-point F2-08TRS relay output module requires 670mA @ 5VDC. If you used a D2-16TD1-2 DC output module instead to drive a ZIPLink relay block, you would only use 200mA @ 5VDC, and you'd have eight more relay outputs at a higher rated load current switching capacity. Refer to the Connection Systems section of this desk reference to find out more about ZIPLink cables and connector modules.

This logo is placed by the I/O modules that are supported by the ZIPLink connection systems. See the I/O module specifications at the end of this section.



Power Supplied								
Device	Price	5V(mA)	24V Auxiliary	Device	Price	5V(mA)	24V Auxiliary	
Bases			Bases					
D2-03B-1	<>	2600	300	D2-06BDC1-1	<>	2600	None	
D2-03BDC1-1	<>	2600	None	D2-06BDC2-1	<>	2600	300	
D2-04B-1	<>	2600	300	D2-09B-1	<>	2600	300	
D2-04BDC1-1	<>	2600	None	D2-09BDC1-1	<>	2600	None	
D2-06B-1	<>	2600	300	D2-09BDC2-1	<>	2600	300	

Device	Power Cons 5V(mA)	24V Auxiliary
CPUs	01()	
D2-230	120	0
D2-240	120	0
D2-240 D2-250-1	330	0
D2-250-1	330	0
H2-WPLC*-**	680	0
DC Input Mo	1	0
•		0
D2-08ND3 D2-16ND3-2	100	0
	1.44	
D2-32ND3 D2-32ND3-2	25 25	0
		0
AC Input Mo		
D2-08NA-1	50	0
D2-08NA-2	100	0
D2-16NA	100	0
Input Simula		
F2-08SIM	50	0
DC Output N	lodules	
D2-04TD1	60	20
D2-08TD1	100	0
D2-08TD2	100	0
D2-16TD1-2	200	80
D2-16TD2-2	200	0
D2-32TD1	350	0
D2-32TD2	350	0
AC Output M	lodules	
D2-08TA	250	0
F2-08TA	250	0
D2-12TA	350	0
Relay Outpu	t Modules	
D2-04TRS	250	0
D2-08TR	250	0
F2-08TR	670	0
F2-08TRS	670	0
D2-12TR	450	0
	n In/Out Mode	
D2-08CDR	200	0

Power Consumed						
Device	5V(mA)	24V Auxiliary				
Analog Modu	les					
F2-04AD-1	50	80				
F2-04AD-1L	50	90mA @ 12V				
F2-04AD-2	60	80				
F2-04AD-2L	60	90mA @ 12V				
F2-08AD-1	50	80				
F2-08AD-2	50	80				
F2-02DA-1	40	60 (note 1)				
F2-02DA-1L	40	70 @ 12V (note 1)				
F2-02DA-2	40	60				
F2-02DA-2L	40	70 @ 12V				
F2-02DAS-1 F2-02DAS-2	100 100	50 / channel 60 / channel				
F2-08DA-1	30	50 (note 1)				
F2-08DA-2	60	140				
F2-4AD2DA	60	80 (note 1)				
F2-04RTD	90	0				
F2-04THM	110	60				
Specialty Mo	dules	·				
D2-CTRINT	50*	0				
D2-CM / D2-EM	100/130	0				
H2-CTRIO	400	0				
D2-DCM	300	0				
F2-DEVNETS	160	0				
F2-SDS-1	160	0				
H2-PBC	530	0				
H2-EBC(-F)	450, (640)	0				
H2-ECOM(-F)	320, (450)	0				
F2-CP128	235	0				
Remote I/O						
H2-ERM(-F)	320, (450)	0				
D2-RMSM	200	0				
D2-RSSS	150	0				
Programming	Devices					
D2-HPP	200	0				
*requires external 5VD						











## ISIONS AND **I**NSTALLATIO

It is important to understand the installation requirements for your DL205 system. This will help ensure that the DL205 products operate within their environmental and electrical limits.

### Plan for safety

This desk reference should never be used as a replacement for the user manual. The user manual, D2-USER-M (sold separately), contains important safety information that must be followed. The system installation should comply with all appropriate electrical codes and standards.

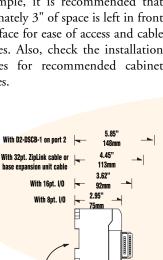
### **Environmental specifications**

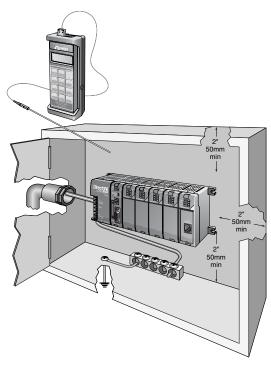
The Environmental Specifications table at the right lists specifications that apply globally to the DL205 system (CPUs, bases, and I/O modules). Be sure that the DL205 system is operated within these environmental specifications.

### **Base dimensions** and mounting

Use the diagrams below to make sure the DL205 system can be installed in your application. To ensure proper airflow for cooling purposes, DL205 bases must be mounted horizontally. It is important to check these dimensions against the conditions required for your application. For example, it is recommended that approximately 3" of space is left in front PLC surface for ease of access and cable clearances. Also, check the installation guidelines for recommended cabinet clearances.

DIN rail slot (35mm)





Environmental Specification	Rating				
Storage Temperature	-4°F - 158°F (-20°C to 70°C)				
Ambient Operating Temperature	32°F - 131°F (0°C to 55°C)				
Ambient Humidity	30%-95% relative humidity (non-condensing)				
Vibration Resistance	MIL STD 810C, Method 514.2				
Shock Resistance	MIL STD 810C, Method 516.2				
Noise Immunity	NEMA (ICS3-304)				
Atmosphere	No corrosive gases				

Base		A		В		C		D	
D2-03B-1, D2-03BDC1-1, D2-03BDC-2	6.77"	172mm	6.41"	163mm	5.8"	148mm	7.24"	184mm	
D2-04B-1, D2-04BDC1-1, D2-04BDC-2	7.99"	203mm	7.63"	194mm	7.04"	179mm	8.46"	215mm	
D2-06B-1, D2-06BDC1-1, D2-06BDC2-1	10.43"	265mm	10.07"	256mm	9.48"	241mm	10.90"	277mm	
aD2-09B-1, D2-09BDC1-1, D2-09BDC2-1	14.09"	358mm	13.74"	349mm	13.14"	334mm	14.56"	370mm	

