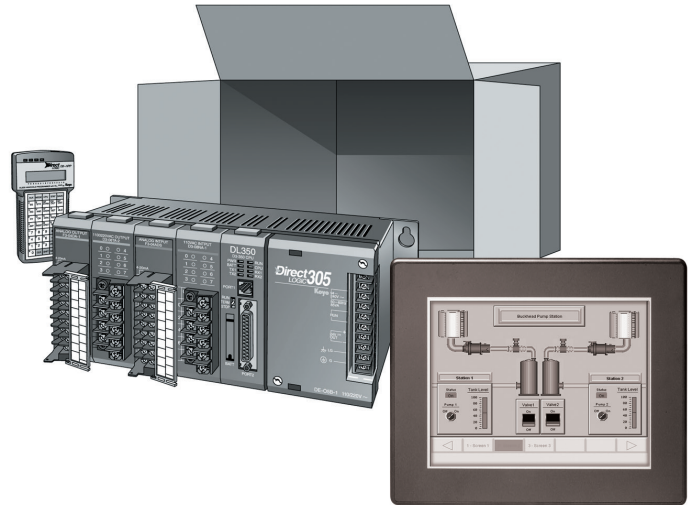


DL305 Family of Products

The following is a quick summary of the DL305 family of products. The DL305 products have been sold by previous vendors under a wide variety of part numbers. A complete list of product offerings with vendor cross-reference is available in the DL305 price list.



CPUs

- D3-350 –14.8K total memory
- 2 communication ports
- 4 PID loops
- MODBUS Master/Slave
- Remote I/O
- Floating point math
- D3-340 – 3.7K total memory
- 2 communication ports
- D3-330 – 3.7 K total memory

Specialty CPUs

- F3-OMUX-1
- Serial interface to Optomux host
- 2 communication ports
- (RS232C/422/485) selectable
- F3-OMUX-2
- Serial interface to Optomux host
- 2 communication ports
- (RS422/485)
- F3-PMUX-1
- Parallel interface to Pamux host

Bases

- 5-slot local or expansion base
- Built-in 110/220 VAC power supply
- 5-slot local or expansion base
- Built-in 24 VDC power supply
- 8-slot local base
- (exp. base w/350 CPU)
- Built-in 110/220 VAC power supply
- 10-slot local or expansion base
- Built-in 110/220 VAC power supply
- 10-slot local or exp. base
- Built-in 24 VDC power supply

Discrete input modules

- DC Input
- 8-pt. 24VDC source
- 16-pt. 24VDC source
- 16-pt. 5V/12-24VDC (sink/source,1ms response)

- AC Input
- 8-pt. 110/220VAC
- 16-pt. 110 VAC

- AC/DC Input
- 8-pt. 24VAC/DC
- 16-pt. 24VAC/DC

Discrete output modules

- DC Output
- 4-pt. 5-24 VDC sink
- 8-pt. 5-24 VDC sink
- 8-pt. 5-24 VDC source
- 16-pt. 5-24 VDC sink
- 16-pt. 5-24 VDC source

- AC Output
- 4-pt. 110-220VAC isolated
- 8-pt. 110VAC isolated
- 8-pt. 110-220VAC isolated
- 16-pt. 15-220VAC

- RELAY Output
- 8-pt. 5.0A/pt
- 8-pt. 4.0A/pt isolated
- 8-pt. 10.0A/pt isolated
- 16-pt. 2A/pt

Analog modules

- 4 Channel IN, 12 bit, isolated
- 8 Channel IN, 12 bit
- 8 Channel thermocouple
- 16 Channel IN, 12 bit
- 4 Channel OUT 12 bit
- 4 Channel OUT 12 bit (isolated)

Specialty modules

- 8 pt. Input Simulator
- Filler Module

Programming

- D3-HP Handheld Programmer for
- D3-330/D3-340

- D2-HPP Handheld Programmer with built-in
- RLL^{PLUS} for D3-350

- DirectSOFT** Programming for Windows
- (PC-DSOFT6)

DIN rail mounted terminal blocks

See the Connection Systems section for over 200 available options.

Communications

- Data Comm Unit (RS232C), 330/340 CPUs only
- Data Comm Unit (RS422), 330/340 CPUs only
- Data Comm Module, 350 CPU only

Operator panels

See the Operator Interface section for a complete listing of all types of panels and software.

Connection systems

See the Wiring Solutions section in this catalog for information on *DINector* terminal blocks, *ZIFLink* connection systems and other connection accessories for use with the DL305 system.

I/O Selection

Choose your I/O modules

There are three major factors to consider when choosing an I/O module:

Environmental specifications:

What environmental conditions will be present?

Hardware specifications:

Does this product have the right features, performance and capacity to adequately serve the application?

Field termination:

How does this module connect to field devices? For DC modules, is a sinking or sourcing module required?

Environmental specifications

The adjacent table lists the environmental specifications that globally apply to the DL305 system (CPU, Bases, and I/O modules). Be sure the modules you choose are operated within these environmental specifications.

Review I/O hardware specifications

The hardware specifications for every DL305 module are listed with each module. Discrete module specifications are shown in a format similar to the example to the right. Take time to understand the specification chart, the derating curve and the wiring diagram.

Specialty module specifications are shown in a format that is relevant for each particular module. These module specifications should help you determine if this module is right for your application.

General I/O module specifications

Specification	Rating
Storage temperature.....	-4°F – 158°F (-20°C to 70°C)
Ambient operating temperature.....	32°F – 140°F (0° to 60°C)
Ambient humidity.....	.5% - 95% relative humidity (non-condensing)
Vibration resistance.....	MIL STD 810C, Method 514.2
.....	Shifting: 0.075 mm 10–57Hz 3 Axes
.....	Acceleration: 9.8 m/s ² 57–150Hz 3 Axes
.....	Sweeping: 810C, Method 516.2
Peak accel.....	147 m/s ² 11ms, 3 Axes
Noise immunity.....	NEMA (ICS3-304)
Atmosphere.....	No corrosive gases

Discrete module specifications sheet example

Specifications

D3-08TA-1 AC Output	
Outputs per module	8
Commons per module	2 (isolated)
Operating voltage	80–265VAC
Output type	TRIAC
Peak voltage	265VAC
AC frequency	47–63Hz
ON voltage drop	1.5 VAC @ 1A
Max current	1A/point 3A/common
Max leakage current	1.2mA @ 220VAC 0.52mA @ 110VAC
Max inrush current	10A for 16ms 5A for 100ms
Minimum load	25mA
Base power required	9V 20mA/ON pt. (160 MA Max) 24V N/A
OFF to ON response	1ms Max
ON to OFF response	8.33 ms Max
Terminal type	Removable
Status indicators	Logic Side
Weight	7.4 oz. (210g)
Fuses	2 (one 5A per common) Non-replaceable

Derating curve

Module wiring

Typical circuit