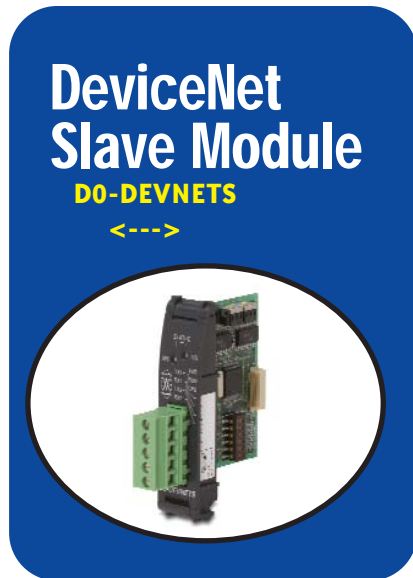


DL05/06 DeviceNet™ Slave Comm. Module



General Specifications	
DeviceNet Compatibility	Predefined Group 2 Master/Slave communications
Maximum Field Devices per Bus	64 (see table below)
Communication to Field Devices	Standard 4-wire shielded cable to cabinet connector, molded 4-wire cable @ up to 500Kbps to field devices
Module Connector	5-position removable terminal (European style)
Operating Temperature	0 to 55°C (32 to 131° F)
Storage Temperature	20 to 70°C (-4 to 158° F)
Relative Humidity	5 to 95% (non-condensing)
Environmental Air	No corrosive gases permitted
Vibration	MIL STD 810C 514.2
Shock	MIL STD 810C 516.2
Noise Immunity	Impulse noise 1μs, 1000V FCC class A RFI (144MHz, 430MHz 10W, 10cm)
Power Consumption	45mA @ 5VDC

The DO-DEVNETS option module transforms any DL05 or DL06 into a smart device node on your DeviceNet™ controller network. Now you don't have to turn to a more expensive PLC to get DeviceNet capability.

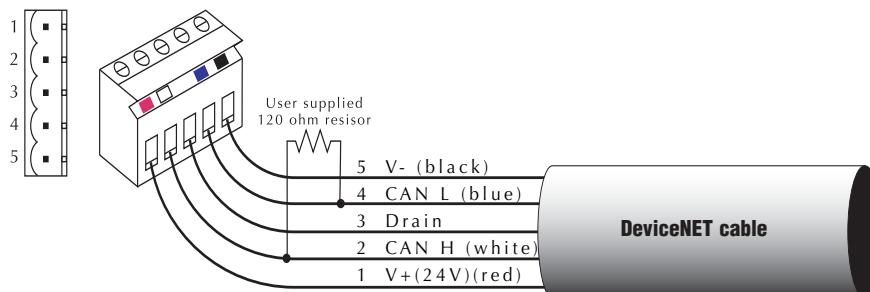
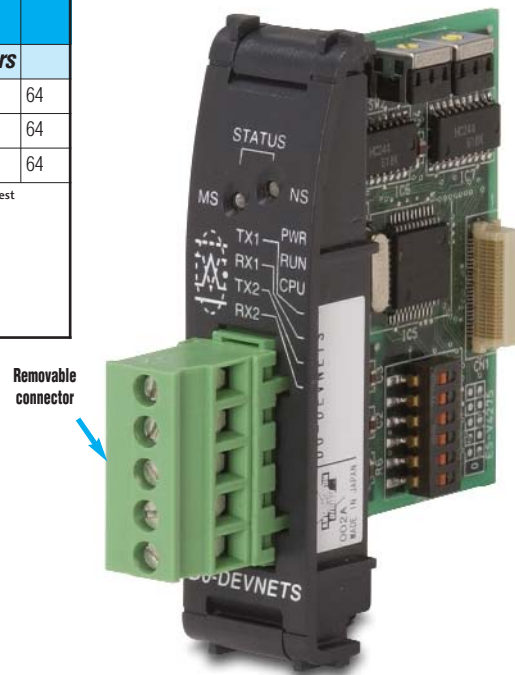
DeviceNet is a low-cost control bus used to connect field devices to PLCs and PCs. DeviceNet is designed to reduce the need for hard-wiring while providing device-level diagnostics. This industrial protocol links up to 64 nodes on a single network.

The DO-DEVNETS slave module slides into the option module slot of any DL05 or DL06 PLC. The module collects and reports all discrete I/O data to a DeviceNet master.

The DO-DEVNETS module has a removable connector that makes the four-wire connection easy to implement and maintain. The DeviceNet module incorporates advanced diagnostics not commonly found on traditional industrial networks. This module has the quick response time and high dependability expected from any DeviceNet device.

Trunk Length		Bits per sec	Branch Length		Devices
Feet	Meters		Feet	Meters	
328ft	100m	500Kbps	20ft	6m	64
820ft	250m	250Kbps	20ft	6m	64
1,640ft	500m	125Kbps	20ft	6m	64

Other DeviceNet specifications, compatible products, and latest DeviceNet information are made available through:
Open DeviceNet Vendor Association
Phone: (954) 340-5412 Fax: (954) 340-5413
Internet Address: <http://www.odva.org>
e-mail: odva@powerinternet.com
ODVA, Inc.
20423 State Road 7
Boca Raton, FL 33498



Power Budgeting for the DL06

The DL06 has four option module slots. To determine whether the combination of modules you select will have sufficient power, you will need to perform a power budget calculation.

Power supplied

Power is supplied from two sources: the internal base unit power supply and, if required, an external supply (customer furnished). The D0-06xx (AC powered) PLCs supply a limited amount of 24 VDC power. The 24 VDC output can be used to power external devices.

For power budgeting, start by considering the power supplied by the base unit. All DL06 PLCs supply the same amount of 5 VDC power. Only the AC units offer 24 VDC auxiliary power.

Be aware of the trade-off between 5 VDC power and 24 VDC power. The amount of 5 VDC power available depends on the amount of 24 VDC power being used, and the amount of 24 VDC power available depends on the amount of 5 VDC power consumed. Determine the amount of internally supplied power from the table to the right.

Power required by base unit

Because of the different I/O configurations available in the DL06 family, the power consumed by the base unit itself varies from model to model. Subtract the amount of power *required* by the base unit from the amount of power *supplied* by the base unit. Be sure to subtract 5 VDC and 24 VDC amounts.

Power required by option modules

Next, subtract the amount of power required by the option modules you are planning to use. Again, remember to subtract both 5 VDC and 24 VDC.

If your power budget analysis shows surplus power available, you should have a workable configuration.

DL06 Power Supplied by Base Units		
Part Number	5 VDC (mA)	24 VDC (mA)
D0-06xx	1500mA	300mA
	2000mA	200mA
D0-06xx-D	1500mA	none

DL06 Base Unit Power Required		
Part Number	5 VDC (mA)	24 VDC (mA)
D0-06AA	800mA	none
D0-06AR	900mA	none
D0-06DA	800mA	none
D0-06DD1	600mA	280mA*
D0-06DD2	600mA	none
D0-06DR	950mA	none
D0-06DD1-D	600mA	none
D0-06DD2-D	600mA	none
D0-06DR-D	950mA	none

* Only if auxiliary 24VDC power is connected to V+ terminal.

DL06 Power Consumed by Other Devices		
Part Number	5 VDC (mA)	24 VDC (mA)
D0-06LCD	50mA	none
D2-HPP	200mA	none
DV-1000	150mA	none
C-more Micro-Graphic	210mA	none

Power Budgeting Example		
Power Source	5VDC power (mA)	24VDC power (mA)
D0-06DD1 (select row A or B)	A	1500mA
	B	2000mA
		300mA
		200mA
Current Required	5VDC power (mA)	24VDC power (mA)
D0-06DD1	600mA	280mA*
D0-16ND3	35mA	0
D0-10TD1	150mA	0
D0-08TR	280mA	0
F0-4AD2DA-1	100mA	0
D0-06LCD	50mA	0
Total Used	1215mA	280mA
Remaining	A	285mA
	B	785mA
		20mA
		note 1

* Auxiliary 24 VDC used to power V+ terminal of D0-06DD1 sinking outputs.

Note 1: If the PLC's auxiliary 24 VDC power source is used to power the sinking outputs, use power choice A, above.

DL05/06 Power Consumed by Option Modules		
Part Number	5 VDC (mA)	24 VDC (mA)
D0-07CDR	130mA	none
D0-08CDD1	100mA	none
D0-08TR	280mA	none
D0-10ND3	35mA	none
D0-10ND3F	35mA	none
D0-10TD1	150mA	none
D0-10TD2	150mA	none
D0-16ND3	35mA	none
D0-16TD1	200mA	none
D0-16TD2	200mA	none
F0-04TRS	250mA	none
F0-08NA-1	5mA	none
F0-04AD-1	50mA	none
F0-04AD-2	75mA	none
F0-08ADH-1	25mA	25mA
F0-08ADH-2	25mA	25mA
F0-04DAH-1	25mA	150mA
F0-08DAH-1	25mA	220mA
F0-04DAH-2	25mA	30mA
F0-08DAH-2	25mA	30mA
F0-2AD2DA-2	50mA	30mA
F0-4AD2DA-1	100mA	40mA
F0-4AD2DA-2	100mA	none
F0-04RTD	70mA	none
F0-04THM	30mA	none
D0-DEVNETS	45mA	none
H0-PSCM	530mA	none
H0-ECOM	250mA	none
H0-CTRIO	250mA	none
H0-ECOM100	300mA	none
F0-08SIM	1mA	none
D0-DCM	250 mA	none
F0-CP128	150 mA	none
F0-08SIM	1 mA	none