

DeviceNet™ Slave Module



wiring costs. The F2-DEVNETS-1 module supports all DL205 discrete and analog I/O modules.

The DeviceNet slave module also offers:

- **Cost effectiveness:** Hardwiring cost is reduced with a single network for devices.
- **Easy connectivity:** Low-cost four wire installation is easy to implement and maintain.
- **Innovative technology:** Power is integrated into the device.
- **Diagnostics:** Advanced error diagnostics not commonly available in traditional systems are available.
- **Highly dependable:** Fast response and high reliability are featured for demanding applications.
- **LED indicators:** Provide quick indication of DL205 power and operating mode.

Overview

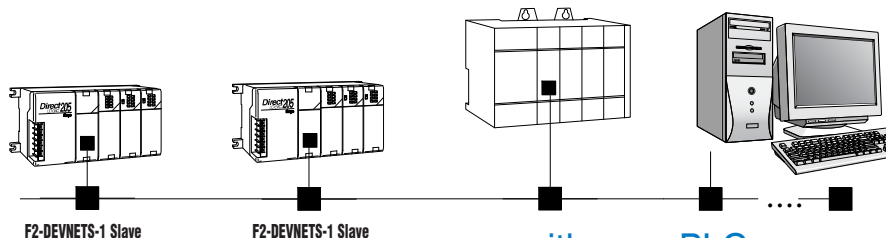
If you are using a DeviceNet™ controller network, the DL205 I/O sub-system will help reduce the cost of your overall application. The F2-DEVNETS-1 (slave) module allows the popular micro-modular DL205 I/O sub-system to be linked with a DeviceNet master controller. DeviceNet is a low-cost control bus that provides a common method to connect automation equipment with devices on a single network. DeviceNet and it significantly reduces hard wiring costs. The DeviceNet standard provides specifications for information exchanged between nodes, such as controller data associated with low level device and configuration parameters individually related to system operations.

How it works

The F2-DEVNETS-1 module is a DeviceNet slave, which can be plugged into the CPU slot of the DL205 micro-modular family of I/O bases. This module maintains a database with all the identification data, diagnostic information, and parameters that control the module operation. The F2-DEVNETS-1 module scans and reports all discrete and analog I/O data to a DeviceNet Master. The AC externally powered DL205 I/O base units contain a 24 VDC, 0.3A power supply for simple wiring of sensors and actuators into the DL205 I/O modules, and for controlling them with a DeviceNet Master. Using our DeviceNet I/O sub-system will increase installation flexibility and save on

F2-DEVNETS-1 Interface Specifications	
Module Type	CPU device
DeviceNet Compatibility	Predefined Group 2 Master/Slave communications.
Number of I/O	(256 inputs, 256 outputs max.) Defined by number of slots per base. (1024 inputs, 1024 outputs max.) Defined by DeviceNet slave specifications
Module Location	CPU slot of any DL205 base
Maximum Field Devices per bus	64 (see table on next page)
Node Address / CAN Baud Rate	Jumper selectable
Communication to Field Devices	Standard 4-wire shielded cable to cabinet connector, molded 4-wire cable @ up to 500 Kbps to field devices
Module Connector	ODVA approved pluggable screw connector
Operating Environment	0°C to 60°C (32°F to 140°F), 5% to 95% humidity (non-condensing)
Internal Power Consumption	160 mA @ 5VDC
Manufacturer	FACTS Engineering

Connect our micro-modular DL205 I/O...



...with your PLC
or PC-based
DeviceNet master.

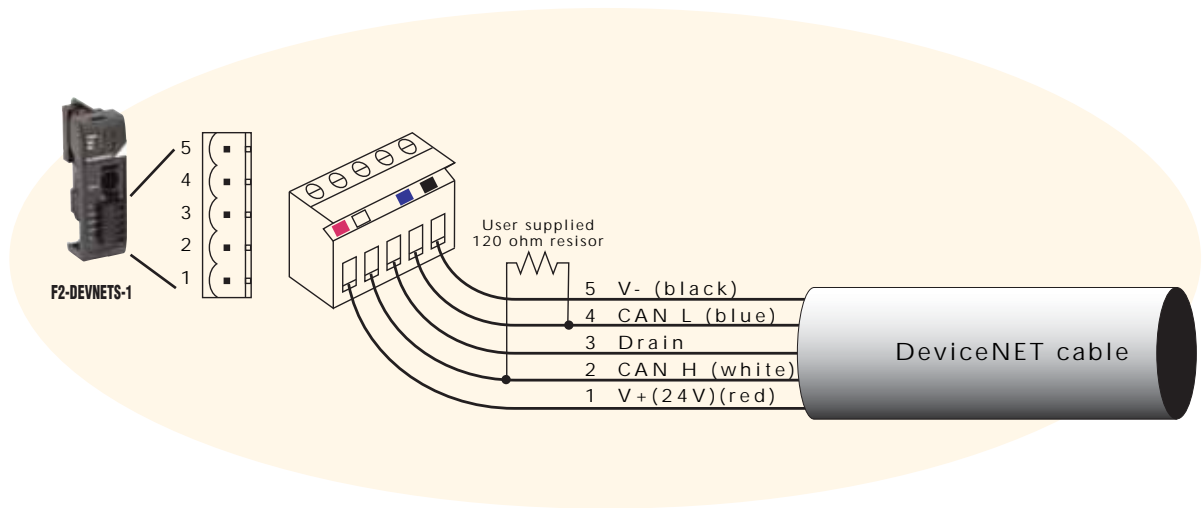
The D2-INST-M Installation and PLC I/O User Manual covers information about DL205 I/O modules, power budgeting, and installation and wiring. This catalog does not cover CPU-slot controllers.

DeviceNet Slave Module

I/O base and network considerations

All discrete and analog I/O modules are supported by the F2-DEVNETS-1 slave module. Choose your DL205 base(s) and I/O modules using the information in this section.

DL205 Style of I/O Modules Supported	
Discrete Types	Analog Types
4-point Input	4-channel Input
8-point Input	8-channel Input
16-point Input	2-channel Output
32-point Input	8-channel Output
4-point Output	4-channel In/ 2 channel Output
8-point Output	4-channel thermocouple
16-point Output (includes 12 pt)	4-channel RTD
32-point Output	
4-point Input/4 point Output	



F2-DEVNETS-1 features

The F2-DEVNETS-1 module replaces the F2-DEVNETS module and adds the following enhancements:

- DIP Switch selectable node address and CAN baud rate
- ODVA approved pluggable screw connectors
- 1,024 inputs and 1,024 outputs as defined by DeviceNet Slave specifications (256 physical inputs and 256 physical outputs defined by the number of slots per I/O base)

The F2-DEVNETS-1 can be used as a direct replacement for the previous F2-DEVNETS through a simple jumper selection procedure.

Trunk Length		Baud Rate	Branch Length		Devices
Feet	Meters	Bits/sec	Feet	Meters	
328	100	500K	20	6	64
820	250	250K	20	6	64
1,640	500	125K	20	6	64

For other DeviceNet specifications, compatible products and latest DeviceNet information, contact:
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Please Note:

1. The DeviceNet Slave module F2-DEVNETS-1 is an ODVA certified DeviceNet-compliant slave I/O interface product. See www.odva.com for more information.
2. For use with Think & Do Software, we recommend the SST DeviceNet PCI Master Card, part number 5136-DNP-PCI. (AutomationDirect does not provide this interface). See www.mysst.com for more information.



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- DL305 PLC
- DL405 PLC
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- Motors
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