

PROGRAMMABLE LOGIC CONTROLLERS

Seven Half-Priced Communication Modules

Ethernet :	H2-ECOM Master / slave Ethernet 10Base-T
Ethernet fiber :	H2-ECOM-F Master / Slave Ethernet 10Base-FL
DeviceNet :	F2-DEVNETS-1 DeviceNet Base Controller (slave)
Profibus :	H2-PBC Profibus Base Controller (slave)
SDS :	F2-SDS-1 Smart Distributed System Base controller (slave)
Serial / MODBUS :	D2-DCM RS232 / 422 DirectNet master / slave, MODBUS RTU slave
Coprocessor :	F2-CP128 BASIC comm. CoProcessor, 3 sport, 128K memory, RS232 / 422 / 485 master / slave



Seven half-priced communication modules

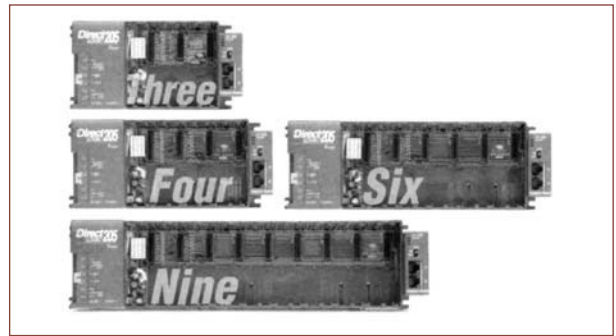
Expansion I/O - add up to four DL205 bases of expansion I/O to the D2-260 CPU or up to two bases for D2-250-1. Its deterministic and low cost.

Remote I/O - plug one or more D2-RMSM remote I/O master into a local DL205 base and then connect up to seven remote DL205 bases on each (with D2-RSSS in slave). The bottom port of the D2-250(-1) and D2-260 CPUs can also act as a remote I/O master.

Ethernet Remote I/O - plug a 10Mbit ethernet remote master module (H2-ERM) into a local DL205 base and then add up to 16 bases of DL205 I/O, 16 terminator I/O systems or four fully expanded DL405 local I/O system, or a combination (all must contain an ethernet base controller).

Four Half-Priced Base Sizes

3-slot base		4-slot base	
D2-03B-1	110/220VAC	D2-04B-1	110/220VAC
D2-03BDC1-1	12/24VDC	D2-04BDC1-1	12/24VDC
6-slot base		9-slot base	
D2-06B-1	110/220VAC	D2-09B-1	110/220VAC
D2-06BDC1-1	12/24VDC	D2-09BDC1-1	12/24VDC
D2-06BDC2-1	125VDC	D2-09BDC2-1	125VDC



Four half-priced base sizes

Our Most Powerful PLC Family - DL405

What is it?

the DL405 product line packs a lot of power for its size and price. It has the widest variety of I/O modules and configurations of all our PLGs.

What's it got?

The DL405 has three CPUs from 6.5k memory with 1152 I/O to 30.8k memory with 3584 possible I/O. It also offers three base sizes with built in power supply, including 12 / 24 VDC, 110 / 220 VAC and 125 VDC power. The DL405 also features flexible I/O and communication modules, such as:

- AC/DC in/out, up to 64 points
- Ten amp relay out
- 12-bit and 16-bit analog inputs and outputs
- Thermocouple and RTD inputs
- Data communications, including serial and ethernet modules
- High speed counter inputs and pulse outputs
- Serial remote I/O master and slave modules
- Ethernet remote I/O master and slave base controllers
- Slice I/O master and slave modules

What can I do with it?

- Built a control system with local/distributed I/O of up to 3500 points.
- Use built-in PID instruction or specially modules to perform cost-effective process control.



DL405

DL405 Family of Products

This page provides an overview of the variety of products found in the DL405 family.

CPUs

D4-450 - 110/220VAC P/S
 D4-450DC-1 - 24VDC P/S
 D4-450DC-2 - 125VDC P/S
 30.8k total memory
 (7.5 built in flash program memory or use optional memory cartridge)
 16 PID loops with auto tune
 D4-440 - 110/220VAC P/S
 22.5k total memory (memory cartridge required)
 D4-440DC-1 - 24VDC P/S
 22.5k memory (memory cartridge required)
 D4-440DC-2 - 125VDC P/S
 22.5k total memory (memory cartridge required)
 D4-430 - 110/220VAC P/S
 6.5 total memory

Memory Cartridges

CMOS RAM - 7.5k (D4-RAM-1)
 CMOS RAM - 15.5k (D4-RAM-2)
 UV PROM - 7.5k (D4-UV-1)
 UV PROM - 15.5k (D4-UV-2)
 EEPROM - 15.5k (D4-EE-2)

Programming

Handheld Programmer (D4-HPP-1)
 DirectSOFT32 Programming for Windows (PC-PGM-SW)

Bases

4-slot base (D4-04B-1)
 6-slot base (D4-06B-1)
 8-slot base (D4-08B-1)

Local expansion base power supplies

110/220VAC P/S(D4-EX)
 24VDC P/S(D4-EXDC)
 125VDC P/S(D4-EXDC-2)

Discrete input modules

DC input

8pt. 24-48VDC (D4-08ND3S)
 16pt. 12-24VDC (D4-16ND2)
 16pt. 12-24VDC (1 ms response) (D4-16ND2F)
 32pt. 24VDC (D4-32ND3-1)
 32pt. 5-12VDC (D4-32ND3-2)
 64pt. 24VDC (D4-64ND2)

AC input modules

8pt. 110/220VAC (D4-08NA)
 16pt. 110VAC (D4-16NA)
 16pt. 220VAC (D4-16NA-1)

AC/DC input modules

8pt 90-150VAC/DC (isolated) (F4-08NE3S)
 16pt 12-24VAC/DC (D4-16NE3)

Discrete output modules

DC output modules

8pt. 12-24DC (D4-08TD1)
 8pt. 24-150VDC (F4-08TD1S)
 16pt. 5-24VDC (D4-16TD1)
 16pt. 12-24VDC (D4-16TD2)
 32pt. 5-15VDC (D4-32TD1-1)
 32pt. 5-24VDC (D4-32TD1)
 32pt. 12-24VDC (D4-32TD2)
 64pt. 5-24VDC (D4-64TD1)

AC output modules

8pt. 18-220VAC (D4-08TA)
 16pt. 18-220VAC (D4-16TA)

Relay output modules

8pt. 2A (D4-08TR)
 8pt. 5A/pt (isolated) (D4-08TRS-2)
 8pt. 10A/pt (isolated) (D4-08TRS-1)
 16pt. 1A/pt (D4-16TR)

Analog modules (12-bit)

Analog input

4ch in, current / voltage (F4-04AD)
 4ch in, current / voltage (isolated) (F4-04ADS)
 8ch in, current / voltage (F4-08AD)
 16ch in, current (F4-16AD-1)
 16ch in, voltage (F4-16AD-2)

Analog output

2ch out, current / voltage(D4-02DA)
 4ch out, current / voltage (F4-04DA)
 4ch out, current (F4-04DA-1)
 4ch out, voltage (F4-04DA-2)
 8ch out, current (F4-08DA-1)
 8ch out, voltage (F4-08DA-2)
 16ch out, current (F4-16DA-1)
 16ch out, voltage (F4-16DA-2)

Analog modules (16-bit)

Temperature input

8 ch in, RTD(F4-08RTD)
 8 ch in, thermocouple (F4-08THM)

Analog output

4 ch out, current (isolated) (F4-04DAS-1)
 4 ch out, voltage (isolated) (F4-04DAS-2)

Communications / network modules

Ethernet communications (H4-ECOM(-F))
 Data communications (D4-DCM)
 MODBUS master (F4-MAS-MB(R))
 MODBUS slave (F4-SLV-MB(R))
 Shared data network (F4-SDN)

Specialty modules

8pt. Interrupt in put (D4-INT)
 High speed counter I/O (H4-CTRIO)
 High speed counter (D4-HSC)
 8pt. Magnetic pulse in out (F4-8MPI)
 16 loop PID (w/software) (F4-16PID)
 8/16pt. Input simulator (D4-16SIM)
 4-loop temperature controller (F4-4LTC)
 Smart distributed system I/O (F4-SDS)

BASIC CoProcessor modules

128K triple port (F4-CP128-1)
 512K triple port (F4-CP512-1)
 128K telephone modem (F4-CP128-T)
 128K radio modem (F4-CP128-R)

CPU-slot Slave Controllers

Ethernet base controller (H4-EBC(F))

Remote I/O modules

Ethernet

Ethernet remote master module (H4-ERM(-F))
 Ethernet base controller (slave) (H4-EBC(-F))

Remote I/O protocol (serial)

Remote I/O master module (D4-RM)
 Remote I/O slave 110/220VAC (D4-RS)
 Remote I/O slave 24VDC (D4-RSDC)

Slice I/O protocol (serial)

Slice I/O master module (D4-SM)
 Slice I/O slaves
 8 in 12-24VDC and 8 OUT5-24VDC (D4-SS-88)
 10 in 12-24VDC and 6 OUT5-24VDC (D4-SS-106)
 16 in 5-24VDC (D4-SS-16N)
 16 out 5-24VDC (D4-SS-16T)

Operator interface

See operator interface section in this catalog for a complete line of text and touch panels and configuration software to connect to DL405 system.

Connection systems

See the connection systems section in this catalog for information on DINnector terminal blocks and ZIPLink connection systems.

