AUTOMATIONDIRECT

*Direct*LOGIC® DL405
Programmable Logic Controller (PLC)

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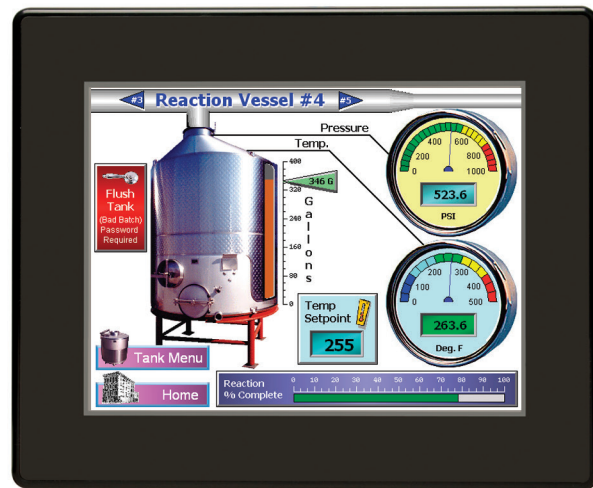www.automationdirect.com/support

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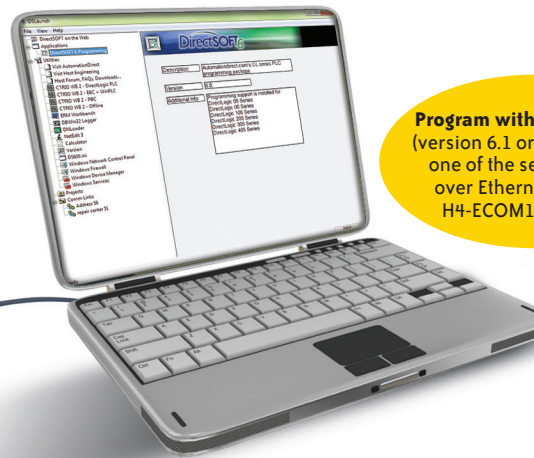www.automationdirect.com/documentation

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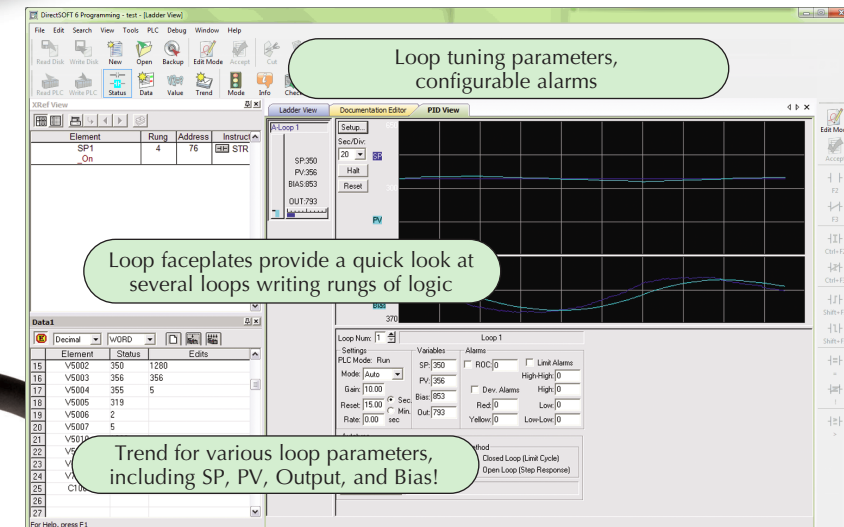www.automationdirect.com/cad

DL405 PLC Family

Program with *DirectSOFT6* (version 6.1 or later) through one of the serial ports or over Ethernet using the H4-ECOM100 module

Operator interface connects to serial port on CPU

F4-08RTD 8 channels of RTD inputs

D4-64ND2 64-point DC inputs for high density

H4-CTRIO High-speed counter module for position control applications

D4-DCM RS232C/422 comm port

H4-ECOM 10MB Ethernet connection Note: Replaced with the H4-ECOM100.

D4-16TD2 16-point DC output

F4-04DAS-1 Four channels of 16-bit current analog outputs
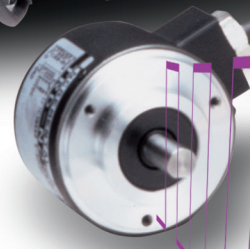
D4-32TD2 32-point DC output

Loop tuning parameters, configurable alarms

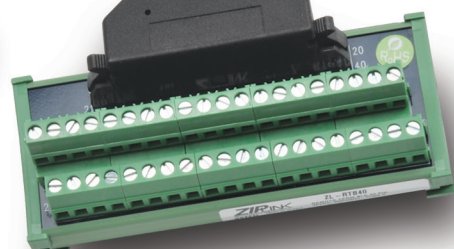Loop faceplates provide a quick look at several loops writing rungs of logic

Trend for various loop parameters, including SP, PV, Output, and Bias!

Remote I/O Up to seven additional bases of I/O connect to the bottom serial port on the D4-454 CPU

Remote I/O

Discrete devices Use our *ZIPLink* easy wiring system to save yourself time and money.

High-speed counting The H4-CTRIO module offers both high-speed counting functions (up to 100 kHz max.) and pulse output functions (up to 25 kHz. max.), making it ideal for position speed monitoring and stepper control. It also includes four independently configurable high-speed isolated discrete outputs. An easy-to-use graphical configuration software allows you to configure the module for all of these capabilities.

What is it?

The DL405 product line packs a lot of power for its size and price.

What's it got?

There are two feature-enhanced CPUs in this product line, the D4-454 and D4-454DC-1. Both include a built-in power supply and communication ports. Each CPU offers a large amount of program memory, a substantial instruction set and advanced diagnostics.

The DL405 also features flexible I/O and communication modules, such as:

- AC/DC in/out, up to 64 points
- 10A 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 input and pulse output
- Serial remote I/O master and slave modules
- Ethernet remote I/O master and slave base controllers

The D4-454 CPUs offer an instruction set that includes drum sequencers, ASCII output, floating point math, trig functions, bit of word, timed and hardware-triggered subroutines, For/Next loops, immediate I/O, and more.

Fill-in-the-blank PID

Many hard-to-use PLCs need a separate ladder program for each PID loop and functions such as ramp/soak, alarms, and loop scheduling. The D4-454 CPU makes it easy with:

- 16 table-configurable PID loops
- Automatic loop scheduling
- Charts for alarms and ramp/soak
- Programming software includes a loop tune screen with trending
- Auto-tuning allows the CPU to automatically determine the near-optimum loop settings

A real-time clock/calendar and historical error logging are also included with the D4-454 CPU.

What can I do with it?

- Build a control system with local/distributed I/O of up to 16,000 points
- Use the built-in PID instruction or specialty modules to perform cost-effective process control

http://www.automationdirect.com/dl405