

1/8 DIN Dual Display, Temperature, Process and Strain PID Controllers



CNi8D Series Starts at
\$355



- ✓ First 1/8 DIN Controller with Embedded Ethernet Connectivity (Optional)
- ✓ Dual Display with Bright Color-Changing Feature
- ✓ Programmable Digital Filter
- ✓ 2 Control or Alarm Outputs (Choice of DC Pulse, Solid State Relays, Mechanical Relays, Analog Voltage and Current)
- ✓ Full Autotune PID Control
- ✓ Built-In Excitation
- ✓ Front Removable

The OMEGA® CNi8DH and CNi8DV are high-quality, highly accurate single loop autotune PID temperature and process controllers for 1/8 DIN (92 x 45 mm) horizontal or vertical panel cutouts. Both devices feature the same state-of-the-art technology, uncompromising accuracy, and quality backed by an extended 5-year warranty.

The CNi8DH and CNi8DV are simple to configure and use, while providing tremendous versatility and a wealth of powerful features.

The CNi8DH and CNi8DV come standard with your choice of 2 control or alarm outputs in almost any combination: solid state relays rated at 0.5 A @ 120/240 Vac; Form "C" SPDT relays rated at 3 A @ 120/240 Vac; pulsed 10 Vdc output for use with an external SSR; or analog output (0 to 10 Vdc or 0 to 20 mA) selectable for control or retransmission of the process value.

CNi8DH33, \$355, shown smaller than actual size.



CNi8DV33, \$400, shown smaller than actual size.



The universal temperature and process instrument (CNi8 models) offer a selection of 10 thermocouple types as well as 2-, 3- or 4-wire RTDs, process voltage and current. The CNi8DH and CNi8DV are ideal controllers for use with transmitters and amplified transducers. Built-in excitation is standard (24 Vdc @ 25 mA). The units handle 0 to 20 mA process current and process voltage in 3 scales: 0 to 100 mV, 0 to 1V, and 0 to 10V.

As with all iSeries devices, the process value display can be programmed to change color between **GREEN**, **AMBER**, and **RED** at any setpoint or alarm point. The LEDs displaying the process value on the CNi8DH (horizontal 1/8 DIN) are the largest digits of any 1/8 DIN controller.

The strain/process instrument (model iS) meters and controllers measure inputs from load cells, pressure transducers, and most any strain gage sensor. Input ranges include 0 to 100 mVdc; -100 mVdc to 1 Vdc; 0 to 10 Vdc in addition to 0 to 20 mA. Excitation for transducers of 5 V and 10 V is standard.

The highly recommended networking and communications options include direct Ethernet LAN connectivity with an embedded Web server, and serial communications. The C24 serial communications option includes both RS232 and RS485 which can be selected from the menu as well as both a

straightforward ASCII protocol or MODBUS®. The C4EI option includes both Ethernet and RS485 ASCII/MODBUS on 1 device. The iSeries, with the network options, are designed for easy integration with popular industrial automation and control programs as well as Microsoft Visual Basic and Excel. OMEGA® provides free configuration software which makes it fast and easy to get up and running with many applications. Available on CD-ROM and for download off the Internet.

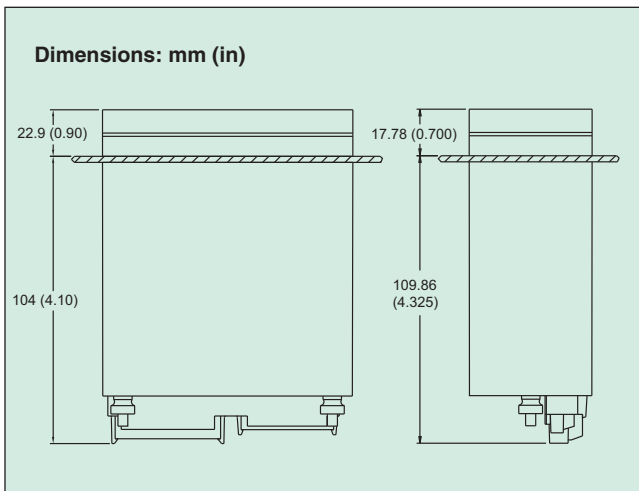
iSeries change color at any setpoint

Totally Programmable Color Displays PATENTED

RED
AMBER
GREEN



The i/8 Series controllers feature plug/removable connectors and a sturdy panel mounting sleeve with adjustable thumb nuts for easy secure installation.



Options

Ordering Suffix	Add'l Price	Description
-AL	N/C	Limit alarm version (simplified menu, alarms only, no PID control) ²
-SM	N/C	Simplified menu (on/off control or alarms, no PID) ³
Network Options		
-EI	\$55	Ethernet with embedded Web server
-C24	60	Isolated RS232 and RS485/422, 300 to 19.2 Kb* ¹
-C4EI	115	Ethernet with embedded Web server + isolated RS485/422 hub for up to 31 devices* ¹
Power Supply		
	N/C	Standard power input: 90 to 240 Vac/dc, 50 to 268 Hz (no entry required)
-DC	\$25	20 to 36 Vac/dc, 24 Vac* ¹
Factory Setup		
-FS	\$50	Factory setup and configuration
Software (Requires Network Option)		
OPC-SERVER LICENSE	\$295	OPC server/driver software license

¹ "-DC", "-C24", and "-C4EI" not available with excitation.
² Analog output is not available with "-AL" units.
³ "-SM" option not available on CNI8 strain models.

MOST POPULAR MODELS HIGHLIGHTED!

To Order (Specify Model Number)			
Model No.	Price	Output 1	Output 2
Dual Display Horizontal with 2 Control Outputs			
CNi8DH33	\$355	Relay	Relay
CNi8DH34	355	Relay	DC pulse
CNi8DH44	355	DC pulse	DC pulse
CNi8DH43	355	DC pulse	Relay
CNi8DH42	355	DC pulse	0.5 A SSR
CNi8DH22	355	0.5 A SSR	0.5 A SSR
CNi8DH23	355	0.5 A SSR	Relay
CNi8DH24	355	0.5 A SSR	DC pulse
CNi8DH53	355	Analog	Relay
CNi8DH54	355	Analog	DC pulse
CNi8DH52	355	Analog	0.5 A SSR
Dual Display Vertical with 2 Control Outputs			
CNi8DV33	\$355	Relay	Relay
CNi8DV34	355	Relay	DC pulse
CNi8DV44	355	DC pulse	DC pulse
CNi8DV43	355	DC pulse	Relay
CNi8DV42	355	DC pulse	0.5 A SSR
CNi8DV22	355	0.5 A SSR	0.5 A SSR
CNi8DV23	355	0.5 A SSR	Relay
CNi8DV24	355	0.5 A SSR	DC pulse
CNi8DV53	355	Analog	Relay
CNi8DV54	355	Analog	DC pulse
CNi8DV52	355	Analog	0.5 A SSR
Strain/Process Input, Dual Display Horizontal with 2 Control Outputs			
CNi8DH33	\$400	Relay	Relay
CNi8DH44	400	DC pulse	DC pulse
CNi8DH43	400	DC pulse	Relay
CNi8DH42	400	DC pulse	0.5 A SSR
CNi8DH22	400	0.5 A SSR	0.5 A SSR
CNi8DH23	400	0.5 A SSR	Relay
CNi8DH24	400	0.5 A SSR	DC pulse
CNi8DH53	400	Analog	Relay
CNi8DH54	400	Analog	DC pulse
CNi8DH52	400	Analog	0.5 A SSR
Strain/Process Input, Dual Display Vertical with 2 Control Outputs			
CNi8DV33	\$400	Relay	Relay
CNi8DV44	400	DC pulse	DC pulse
CNi8DV43	400	DC pulse	Relay
CNi8DV42	400	DC pulse	0.5 A SSR
CNi8DV22	400	0.5 A SSR	0.5 A SSR
CNi8DV23	400	0.5 A SSR	Relay
CNi8DV24	400	0.5 A SSR	DC pulse
CNi8DV53	400	Analog	Relay
CNi8DV54	400	Analog	DC pulse
CNi8DV52	400	Analog	0.5 A SSR

Comes with complete operator's manual.

Ordering Examples: CNI8DH43, horizontal 1/8 DIN dual display with pulse control and relay, \$355. CNI8DV53, 1/8 DIN dual display vertical controller with analogue output and relay, \$355. CNI8DH22, 1/8 DIN dual display horizontal controller with 2 SSR outputs, \$400.





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• Flow and Level

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• Heaters

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