

iSeries 1/32 DIN Temperature, Process and Strain PID Controllers

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MONOGRAM

CNi32 Series Starts at **\$195**



CNi3233, \$195, smaller than actual size.

- ✓ High Accuracy: $\pm 0.03\%$ Reading, 0.5°C ($\pm 0.9^{\circ}\text{F}$)
- ✓ First 1/32 DIN Instrument with Totally Programmable Color Displays Standard
- ✓ User-Friendly, Simple to Configure
- ✓ Free Software, ActiveX Controls
- ✓ Full Autotune PID Control
- ✓ Universal Inputs: Thermocouple RTD, Process Voltage/Current, Strain
- ✓ First 1/32 DIN Instrument Offering Both RS232 and RS485 Serial Communications in 1 Instrument (Optional)
- ✓ First 1/32 DIN Instrument with Built-in Excitation, 24 Vdc Standard
- ✓ Temperature Stability $\pm 0.04^{\circ}\text{C}/^{\circ}\text{C}$ RTD and $\pm 0.05^{\circ}\text{C}/^{\circ}\text{C}$ TC @ 25°C (77°F)
- ✓ NEMA 4 (IP65) Front Bezel
- ✓ First 1/32 DIN Instrument with Analog Output Selectable as a Control Output or as Retransmission of Process Variable
- ✓ 2 Control or Alarm Outputs Optional: DC Pulse, Solid State Relays, Mechanical Relays, Analog Voltage and Current
- ✓ Front Removable and Plug Connectors

The OMEGA® CNi32 is the iSeries controller in the extremely compact and increasingly popular 1/32 DIN size (22.5 x 45 mm cutout). The CNi32 is the most sophisticated and accurate instrument available in the small 1/32 DIN package, yet is still easy to configure.

The CNi32 handles more thermocouple, RTD, process voltage and current inputs than any other 1/32 DIN controller.

The CNi32 is the first 1/32 DIN controller with built-in excitation for transmitters or other devices, 24 Vdc @ 25 mA.

The CNi32 has built-in excitation for bridge transducers, 5 Vdc @ 40 mA or 10 Vdc @ 60 mA. When communications options are installed, external excitation may be used and ratiometric operation maintained by connecting the external excitation to the sense leads. Both 4- or 6-wire bridge configurations are supported for internal or external excitation. Non-ratiometric operation is supported

for voltage and current transducers and is also valuable in measuring offset and millivolt output of bridge devices during manufacturing and calibration. This model also features 10-point linearization which allows the user to linearize the signal input from extremely nonlinear transducers of all kinds.

The CNi32 introduces a number of unique features not yet found on any other 1/32 DIN instrument. The CNi32 is the first 1/32 DIN controller with a totally programmable display that can change color between **GREEN**, **AMBER**, and **RED** at any setpoint or alarm point. The unique 9-segment LED characters greatly improves alphanumeric representations.

The CNi32 is the first 1/32 DIN controller offering 2 SPDT Form C relays, instead of the single throw relays on typical 1/32 DIN controllers.

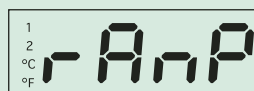
The CNi32 is the first to offer both RS232 and RS422/485 serial communications in 1 instrument (C24 option). Both ASCII protocol and modbus protocol are selectable from the menu.

The iSeries displays feature unique 9-segment LED characters, which greatly improves alphanumeric representations. The 7-segment LED characters found on most instruments are adequate for presenting numbers, but not letters.

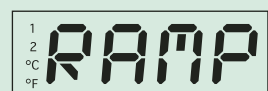
Words are easier to read with the unique 9-segment LED characters on the iSeries, which makes operating and programming simpler and easier.



9-segment LED



7-segment display

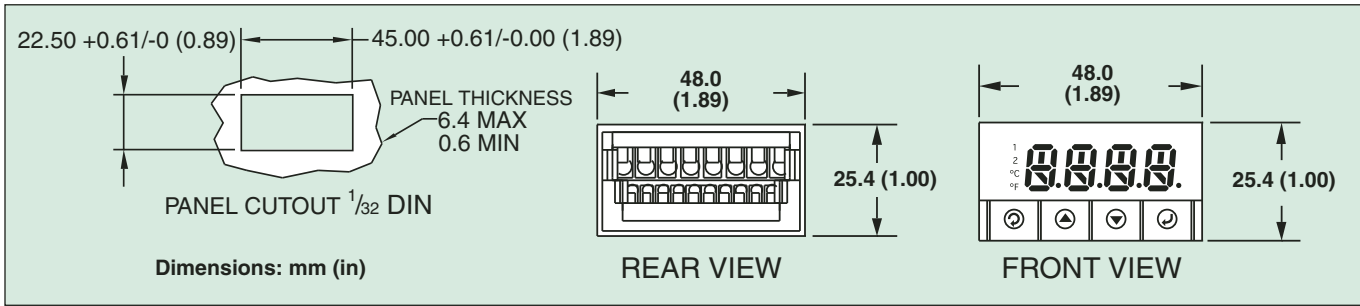


9-segment display



CNI3233, \$195, shown larger than actual size.

CNI3244, \$195, shown larger than actual size.



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		
-C24	\$60	Isolated RS232 and RS485/422, 300 to 19.2 Kb ¹
-EIS-2B	195	Industrial iServer Microserver™, serves 32 devices
Power Supply		
-DC	\$25	12 to 36 Vac/dc, 24 Vac ¹
Factory Setup (Requires Network Option)		
-FS	N/C	Factory setup and configuration
-FS(RTD-1N)	N/C	Factory scaled for MIL-T-7990B nickel RTD input, 0 to 200°C (32 to 392°F)
-FS(RTD-2N)	N/C	Factory scaled for MIL-T-7990B nickel RTD input, -40 to 300°C (-40 to 572°F)
Software (Requires Network Option)		
OPC-SERVER LICENSE	\$295	OPC server/driver software license

¹ Excitation not available with "-DC", "-C24" or "-C4EI" options.

² "-AL" option not available on models with analog (0 to 10V/0 to 20 mA) output.

³ "-SM" option not available on CNIS strain/process input models.

MOST POPULAR MODELS HIGHLIGHTED!

To Order (Specify Model Number)			
Model No.	Price	Output 1	Output 2
Temperature/Pressure Input			
CNI3222	\$195	0.5 A SSR	0.5 A SSR
CNI3223	195	0.5 A SSR	Relay
CNI3224	195	0.5 A SSR	DC pulse
CNI3233	195	Relay	Relay
CNI3242	195	DC pulse	0.5 A SSR
CNI3243	195	DC pulse	Relay
CNI3244	195	DC pulse	DC pulse
CNI3252	195	Analog	0.5 A SSR
CNI3253	195	Analog	Relay
CNI3254	195	Analog	DC pulse
Strain/Process Input			
CNI3222	\$240	0.5 A SSR	0.5 A SSR
CNI3223	240	0.5 A SSR	Relay
CNI3224	240	0.5 A SSR	DC pulse
CNI3233	240	Relay	Relay
CNI3234	240	Relay	DC pulse
CNI3242	240	DC pulse	0.5 A SSR
CNI3243	240	DC pulse	Relay
CNI3244	240	DC pulse	DC pulse
CNI3252	240	Analog	0.5 A SSR
CNI3253	240	Analog	Relay
CNI3254	240	Analog	DC pulse

Comes complete with DPI32-B-COVER and operator's manual.

Ordering Examples: CNI3222-C24, 1/32 DIN PID controller with 2 solid-state relays for PID control and serial communications, both RS232 and RS485, \$195 + 60 = \$255.

CNI322-AL, 1/32 DIN strain/process controller, limit alarm version with SSR output, \$240.

Accessory

Model No.	Price	Description
DPP-1	\$400	1/32 DIN panel punch



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• Flow and Level

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