

1/16 DIN Temperature, Process and Strain PID Controllers

CNi16 Series
 Starts at
\$225



- ✓ High Quality
- ✓ 5-Year Warranty
- ✓ High Accuracy $\pm 0.5^{\circ}\text{C}$ ($\pm 0.9^{\circ}\text{F}$), 0.03% Reading
- ✓ First 1/16 DIN Controller with Totally Programmable Color Displays (Standard)
- ✓ User-Friendly, Simple to Configure
- ✓ Free Software
- ✓ Full Autotune PID Control
- ✓ Universal Inputs: Thermocouple, RTD, Process Voltage/Current, Strain
- ✓ Embedded Ethernet Connectivity
- ✓ First 1/16 DIN Controller Offering Both RS232 and RS485 Serial Communications in 1 Instrument (Optional)
- ✓ First 1/16 DIN Controller with Built-in Excitation, 24 Vdc (Standard)
- ✓ First 1/16 DIN Instrument with Analog Output Selectable as a Control Output or as a Calibrated Retransmission of Process Variable
- ✓ NEMA 4 (IP65) Front Bezel
- ✓ 2 Control or Alarm Outputs (Optional): DC Pulse, Solid State Relays, Mechanical Relays, Analog Voltage and Current Temperature Stability



CNi1633, \$225, shown larger than actual size.



CNi16D33, \$245, shown larger than actual size.

- ✓ $\pm 0.04^{\circ}\text{C}/^{\circ}\text{C}$ RTD and $\pm 0.05^{\circ}\text{C}/^{\circ}\text{C}$ Thermocouple @ 25°C (77°F)
- ✓ Front Removable and Plug Connectors

The OMEGA® CNI16 is the popular 1/16 DIN size (48 mm²) controller. It is available with a single (model CNI16) or dual display (model CNI16D) that displays a setpoint along with the process value. The CNI16 display can be programmed to change color between **GREEN**, **AMBER**, and **RED** at any setpoint or alarm point. The CNI16 is the first 1/16 DIN

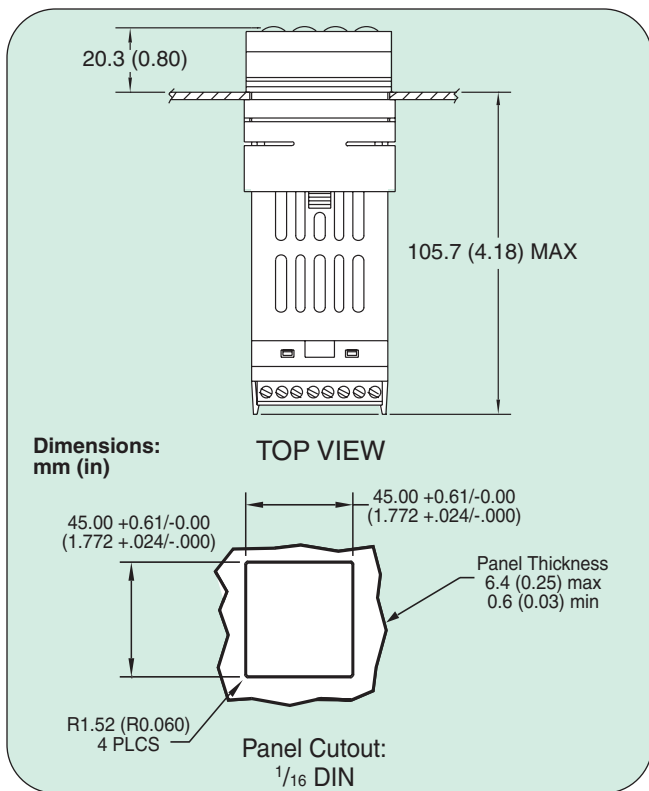
controller with the option of both RS232 and RS485 in 1 instrument with both MODBUS serial protocol and the straightforward OMEGA® ASCII protocol. And of course the CNI16 is the first 1/16 DIN controller that can connect directly to an Ethernet network and features an embedded Web server. OMEGA® provides free configuration and data acquisition software for the iSeries on CD-ROM and for download off of the Web.

The CNI16 enclosure has a NEMA 4 (IP65) rated front bezel. The electronics are removable from the front panel.

Access Vital information Anytime, Anywhere, On the World Wide Web!



1/16 DIN controller with embedded Web server, dual control outputs, dual display.



Options

Ordering Suffix	Add'l Price	Description
-AL	N/C	Limit alarm version (simplified menu, alarms only, no PID control)*2*3
-SM	N/C	Simplified menu (on/off control or alarms, no PID)*5
Network Options		
-EI	\$55	Ethernet with embedded Web server*1
-C24	60	Isolated RS232 and RS485/422, 300 to 19.2 Kb*2
-C4EI	115	Ethernet with embedded Web server + isolated RS485/422 hub for up to 31 devices*1*2
Power Supply		
-DC	\$25	12 to 36 Vac/dc, 24 Vac*2*4
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 Ethernet options are available for the i16D and iS16D controllers only.

*2 "-DC", "-C24", and "-C4EI" not available with excitation.

*3 Analog output is not available with "-AL" units.

*4 20 to 36 Vdc for CNI16D.

*5 "-SM" option not available on CNIS16 strain models.

MOST POPULAR MODELS HIGHLIGHTED!

To Order (Specify Model Number)

Model No.	Price	Output 1	Output 2
Single Display with 2 Control Outputs			
CNI1633	\$225	Relay	Relay
CNI1644	225	DC pulse	DC pulse
CNI1643	225	DC pulse	Relay
CNI1642	225	DC pulse	0.5 A SSR
CNI1622	225	0.5 A SSR	0.5 A SSR
CNI1623	225	0.5 A SSR	Relay
CNI1624	225	0.5 A SSR	DC pulse
CNI1653	225	Analog	Relay
CNI1654	225	Analog	DC pulse
CNI1652	225	Analog	0.5 A SSR
Dual Display with 2 Control Outputs			
CNI16D33	\$245	Relay	Relay
CNI16D44	245	DC pulse	DC pulse
CNI16D43	245	DC pulse	Relay
CNI16D42	245	DC pulse	0.5 A SSR
CNI16D22	245	0.5 A SSR	0.5 A SSR
CNI16D23	245	0.5 A SSR	Relay
CNI16D24	245	0.5 A SSR	DC pulse
CNI16D53	245	Analog	Relay
CNI16D54	245	Analog	DC pulse
CNI16D52	245	Analog	0.5 A SSR
Single Display Strain/Process Input with 2 Control Outputs			
CNIS1633	\$275	Relay	Relay
CNIS1644	275	DC pulse	DC pulse
CNIS1643	275	DC pulse	Relay
CNIS1642	275	DC pulse	0.5 A SSR
CNIS1622	275	0.5 A SSR	0.5 A SSR
CNIS1623	275	0.5 A SSR	Relay
CNIS1624	275	0.5 A SSR	DC pulse
CNIS1653	275	Analog	Relay
CNIS1654	275	Analog	DC pulse
CNIS1652	275	Analog	0.5 A SSR
Dual Display Strain/Process Input with 2 Control Outputs			
CNIS16D33	\$295	Relay	Relay
CNIS16D44	295	DC pulse	DC pulse
CNIS16D43	295	DC pulse	Relay
CNIS16D42	295	DC pulse	0.5 A SSR
CNIS16D22	295	0.5 A SSR	0.5 A SSR
CNIS16D23	295	0.5 A SSR	Relay
CNIS16D24	295	0.5 A SSR	DC pulse
CNIS16D53	295	Analog	Relay
CNIS16D54	295	Analog	DC pulse
CNIS16D52	295	Analog	0.5 A SSR

Comes with complete operator's manual.

Ordering Examples: CNI1633, output 1 relay, output 2 relay single display controller with 2 control outputs, \$225.

CNIS1643, output 1 DC pulse, output 2 relay single display strain/process input controller with 2 control outputs, \$275.



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• Flow and Level

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• Heaters

Band Heaters, Cartridge Heaters, Circulation Heaters, Comfort Heaters, Controllers, Meters and Switching Devices, Flexible Heaters, General Test and Measurement Instruments, Heater Hook-up Wire, Heating Cable Systems, Immersion Heaters, Process Air and Duct, Heaters, Radiant Heaters, Strip Heaters, Tubular Heaters