

1/32 DIN Dual-Zone Controllers with Fuzzy Logic

CN79000 Series



- ✓ Thermocouple Inputs Only
- ✓ Large Dual Display
- ✓ Illuminated Keypad
- ✓ Free Software

The CN79000 controller set a new standard in 1/32 DIN power, flexibility, and value. The CN79000 is a dual zone controller in the 1/32 DIN size. The CN79000 Series offers 5 thermocouple input types and each zone offers a single setpoint. Standard features include independent fuzzy logic, autotune, and peak/valley indication for each zone. RS485 Serial communication is optional.

Specifications

Display: Two 4-digit, 7 segment, 6.35 mm H (0.25") LEDs

Accuracy: ±0.25% of span, ±1 least significant digit

Supply Voltage: 100 to 240 Vac, nominal, 10 to 15%, 50 to 400 Hz

Single Phase: 132 to 240 Vdc, nominal, 10 to 20%

Power Consumption: 5 VA maximum

Operating Temperature: -10 to 55°C (14 to 131°F)

Memory Backup: Nonvolatile memory, no batteries required

Control Output Ratings:

Relay (Resistive): SPST, 3 A @ 240 Vac

Relay (Inductive): 1.5 A @ 240 Vac

Pilot Duty Rating: 250 VA,
2 A @ 120 Vac or 1 A @ 240 Vac

DC Pulse: 5 Vdc @ 20 mA (non-isolated)

Current: 4 to 20 mA

Weight: 114 g (4 oz)

Panel Cut-Out: 45 x 22 mm (1.772 x 0.874")

Front Bezel: 52.8 x 30.1 mm (2.080 x 1.184")

Maximum Panel Thickness: 6.35 mm (0.25")

Panel Depth: 111.60 mm (4.395")



OMEGACARESM extended warranty program is available for models shown on this page. Ask your sales representative for full details when placing an order. OMEGACARESM covers parts, labor and equivalent loaners.



CN79033

Inputs

Input Types	Range
K	-129 to 1371°C (-200 to 2500°F)
J	-73 to 871°C (-100 to 1600°F)
E	-73 to 982°C (-100 to 1800°F)
N	-73 to 1300°C (-100 to 2372°F)
L (J DIN)	-73 to 871°C (-100 to 1600°F)

Note: All thermocouple inputs can be set for 0.1° display. If temperature goes above 999.9° or less than -199.9° the display will return to whole degree resolution.

Inputs are not isolated, must use ungrounded thermocouples.

To Order

Model No.	Description
CN79022	Dual-zone, DC pulse/DC pulse
CN79033	Dual-zone, relay/relay
CN79053	Dual-zone, 4 to 20 mA/relay

Options

Ordering Suffix	Description
-C4	RS485 communications*
-LV	12 to 24 Vdc/Vac

* Free CN7-A software download available.

Comes complete with operator's manual.

Ordering Examples: CN79033, dual-zone, dual-mechanical relay outputs.

OCW-3, OMEGACARESM extends standard 1-year warranty to a total of 4 years.

CN79053, dual zone 4 to 20 mA relay.

Accessories (Field Installable)

Model Number	Description
CNQUENCHARC	Noise suppression RC snubber (2 leads), 110 to 230 Vac
CN7-485-USB-1	RS485 to USB mini-node converter

Panel punches available, visit OMEGA for details