

# 1/32 DIN Dual-Zone Controllers with Fuzzy Logic

## CN79000 Series



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



CN79033

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")

### 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

### 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