

# 1/16 DIN LCD On/Off Temperature Controllers

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CN1A Series

**\$168**

All Models



- ✓ Dual Outputs
- ✓ 4 Programmable RTD Thermocouple or Inputs
- ✓ 10 Programmable Alarm Options
- ✓ Reverse (Heat) or Direct (Cool) Control
- ✓ Power Options: 90 to 260 Vac and 10 to 32 Vac/Vdc
- ✓ Easy 2-Button Set-Up
- ✓ Clear LCD Display
- ✓ Panel or Socket Mount Design



CN1A-TC, with included mounting bracket, \$168, shown actual size.



PTC-1A Series, companion timer, \$148, page M-119.

## CN1A Input and Range Table

Input	Range	
RTD	-99 to 400°C	-99 to 700°F
J	-99 to 700°C	-99 to 999°F
K	-99 to 999°C	-99 to 999°F
T	-99 to 300°C	-99 to 570°F
N	-99 to 999°C	-99 to 999°F

The CN1A Series is a digital on/off temperature controller designed to provide the functionality of general purpose PID controllers but at a price suited to on/off applications. The simple programming with 2 front panel keys, uncluttered LCD display, and uncomplicated control functions and alarm programming have enabled the CN1A to be widely used in a variety of applications. The PTC-1A is designed to combine a harmonized appearance with simple-to-operate, flexible functions and high reliability. The CN1A, when combined with the PTC-1A complimentary timer is ideal for frequent user-adjustable applications such as hot foil printing, window sealing and environmental ovens, which often require both temperature and timing control.

## Specifications

### Operating Ambient Range:

-10 to 50°C (14 to 122°F)

### Storage Temperature:

-20 to 85°C (-4 to 185°F)

**Programmable Functions:** °C/°F, hysteresis, sensor type, control action, alarm conditions, setpoint limits, offset, password

**Power:** 10 to 32 Vac/Vdc @ 60 mA max, 90 to 260 Vac, 50/60 Hz @ 1.5 Va max

### Accuracy:

**Thermocouple:** ±0.25% over 90% of scale range (-50 to 950°C) and ±1% over the extreme 5% of the scale limits (-99 to -51 and 950 to 999°C);

**RTD:** ±0.60% FS

### Offset Accuracy:

**Thermocouple:** ±5°C

**RTD (Pt100):** ±2°C (3.6°F)

**Control Output:** SPDT relay, rated @ 3 A, 240 Vac

**Alarm Output:** SPST N.O. relay, rated @ 3 A, 240 Vac

## Dimensions

1/16 DIN: 48 H x 48 W x 89 D mm (1.9 x 1.9 x 3.5")

1/16 DIN Panel Cutout: 45 mm (1.772") square

**Memory Back-Up:** EEPROM

**Weight:** 205 g (7.2 oz)

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To Order (Specify Model Number)		
Model No.	Price	Description
CN1A-TC	\$168	On/off thermocouple input controller
CN1A-TC-24V	168	On/off thermocouple input controller, 10 to 32 Vac/Vdc
CN1A-RTD	168	On/off RTD Pt100 input controller
CN1A-RTD-24V	168	On/off RTD Pt100 input controller, 10 to 32 Vac/Vdc

### Accessories

Model No.	Price	Description
DPP-4	\$475	1/16 DIN panel punch
GE-2117	23	Reference Book: Controller Tuning, PID

Comes complete with operator's manual.

**Ordering Examples:** CN1A-TC-24V, on/off programmable J, K, T, N thermocouple input controller with 10 to 32 Vac/dc power, \$168.

CN1A-RTD, on/off RTD input controller, \$168.

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